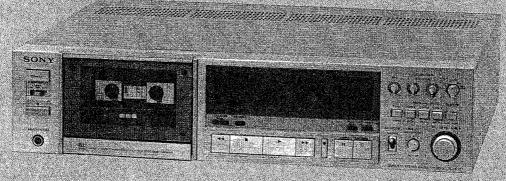
US Model Canadian Model AEP Wodel E Model



Dollar, and the double D symbol are the trans-marks of Protovoltaboratories, iNesse reduction system incrementationed maer Rochse from Dolby Laboratories.

SPECIFICATIONS

Recording System: 4-track 2-channel stereo

Fast-forward and

Approx. 80 sec. (with C-60 cassette) **Rewind Time:**

Bias Frequency: 105 kHz

SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT A LA SECURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE A SUR LES DIAGRAMMES SCHÉ-MATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.



Signal-to-noise Ratio:

AEP, E model: DOLBY NR OFF

- With TYPE IV cassette (Sony METALLIC) 60 dB at peak level (NAB)
- 58 dB (DIN) With TYPE III cassette (Sony FeCr) 60 dB at peak level (NAB)
- 58 dB (DIN) With TYPE II cassette (Sony CD- α)
- 58 dB at peak level (NAB) With TYPE I cassette (Sony BHF) 56 dB at peak level (NAB)
 DOLBY NR ON
 Improved by 5 dB at 1 kHz,
- 10 dB above 5 kHz

US, Canadian model:

- DOLBY NR OFF

 With TYPE IV cassette (Sony METALLIC) 60 dB at peak level
- With TYPE III cassette (Sony FeCr) 60 dB at peak level
- With TYPE II cassette (Sony EHF) 58 dB at peak level
- With TYPE I cassette (Sony HFX) 56 dB at peak level
- DOLBY NR ON Improved by 5 dB at 1 kHz, 10 dB above 5 kHz
- Continued on page 2 -



Total Harmonic Wow and Flutter: 0.025 % WRMS (NAB) 0.8 % (with Sony METALLIC and FeCr Distortion: ±0.07 % (DIN) AEP, E model cassettes) Line inputs (phono jacks) Sensitivity 77.5 mV (-20 dB) Input impedance 50 $k\Omega$ inputs: Frequency Response: AEP, E model: DOLBY NR OFF

With TYPE IV cassette (Sony METALLIC) Fixed line outputs (phono jacks) Output level 0.435 V (-5~dB) at a load impedance of 50 k Ω Outputs: 20 - 20,000 Hz 30 - 18,000 Hz (±3 dB) 30 - 13,000 Hz (±3 dB, 0 VU recording) Load impedance over 10 kΩ Variable line outputs (phono jacks) Maximum output level 0.435 V (-5 dB) 30 – 13,000 Hz (±3 dB, 0 V 0 record 30 – 18,000 Hz (DIN) With TYPE III cassette (Sony FeCr) 20 – 20,000 Hz 30 – 18,000 Hz (±3 dB) at a load impedance of 50 k Ω with LINE OUT level control at "0" Variable in five steps from -5 dB to 30 — 18,000 Hz (±3 dB) 30 — 18,000 Hz (DIN) With TYPE II cassette (Sony CD-α) 20 — 19,000 Hz 30 — 17,000 Hz (±3 dB) 30 — 17,000 Hz (DIN) With TYPE I cassette (Sony BHF) 20 — 19,000 Hz 30 — 17,000 Hz (±3 dB) 30 — 17,000 Hz (DIN) Load impedance over 10 $k\Omega$ Headphone output
Output level variable in five steps from -20 dB to -44 dB at a load impedance of **GENERAL** US model: AEP model: 220 V ac, 50/60 Hz (240 V ac adjustable by authorized Sony personnel) Power Requirements: DOLBY NR OFF With TYPE IV cassette (Sony METALLIC) 10 - 21,000 Hz E model: 110, 120, 220 or 240 V ac 20 - 20,000 Hz (±3 dB) adjustable, 50/60 Hz 20 - 20,000 Hz (±3 dB) 0 VU recording)
With TYPE III cassette (Sony FeCr)
10 - 21,000 Hz
20 - 20,000 Hz (±3 dB)
With TYPE III cassete (Sony EHF) US, Canadian model: 120 V ac, 60 Hz Power Consumption: 41 watts Unswitched 300 W AC outlet. 10 - 20,000 Hz (US, Canadian model) 20 - 18,000 Hz (±3 dB) With TYPE I cassette (Sony HFX) 10 – 20,000 Hz 20 – 18,000 Hz (±3 dB) Approx. 430(w) x 105(h) x 390(d) mm $(16\%_8 \text{ (w)} \times 4\%_8 \text{ (h)} \times 15\%_8 \text{ (d)} \text{ inches)}$ Dimensions: including projecting parts and controls Canadian model: DOLBY NR OFF

With TYPE IV cassette (Sony METALLIC)
20 - 20,000 Hz Weight: AEP, E model: Approx. 9.8 kg (21 lbs 10 oz) US, Canadian model: 30 - 18,000 Hz (±3 dB) 30 – 13,000 Hz (±3 dB) 0 VU recording)
With TYPE III cassette (Sony FeCr)
20 – 20,000 Hz
30 – 18,000 Hz (±3 dB)
With TYPE III cassette (Sony EHF) Approx. 9.6 kg (21 lbs 3 oz) LED PEAK PROGRAM METERS Response Range: -40 dB to +8 dB 20 – 19,000 Hz 30 – 17,000 Hz (±3 dB) With TYPE I cassette (Sony HFX) 20 – 19,000 Hz 30 – 17,000 Hz (±3 dB) Frequency Response: 20 - 20,000 Hz ±1.5 dB

Response Time: 1 millisecond

Decay Time (from 0 dB to -20 dB):

750 milliseconds

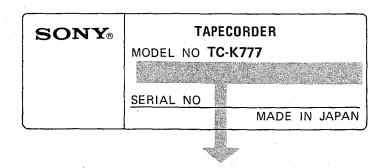
Overshoot: None

Indicator Elements:

30 elements for each channel

MODEL IDENTIFICATION

Specification Label



US, Canadian model:

AC 120 V 60 Hz 41 W

AEP model:

AC 220 V ~ 50/60 Hz 41 W

E model:

AC 110, 120, 220, 240 V ~ 50/60 Hz 41 W

Handling Precautions for MOS ICs

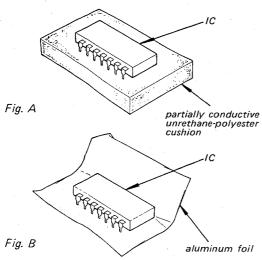
Generally, the insulation resistance of the oxide layer in MOS IC structures is very high, and the oxide layer is very thin. Because of this, it is possible that the static voltages usually present on clothes and the human body will be enough to generate a potential difference across the insulator, high enough to cause a breakdown of the insulating layer.

The following precautions should be taken while handling these ICs.

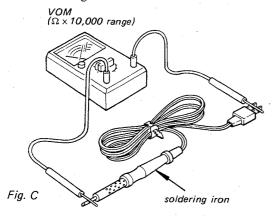
(Particular care should be taken under conditions of low humidity.)

Precautions in Replacing MOS ICs

- 1. Store new ICs by inserting them into a urethanepolyester cushion (which is somewhat conductive), or wrapping it in aluminum foil, so that all the pins are at the same potential.
 - (The ICs should be stored in that manner until mounted on the circuit board.)



2. Check the soldering iron for possible power-line leakage current. Make sure that there is no leakage path by connecting an ohmmeter to the tip of the soldering iron and the plug as shown in Fig. C. If there is a leakage path, use some other soldering iron.



- Equalize any potential difference between the clothes, the tools in use, the work bench, the set being worked on, and the packaged IC by touching them all in succession with the hands or a conductive wire or tool.
- 4. The following are effective methods for handling ICs that remove the potential difference across the oxide layer.
 - Use a paper clip modified by soldering in a wire braid insert.

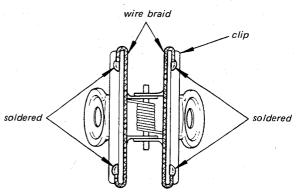
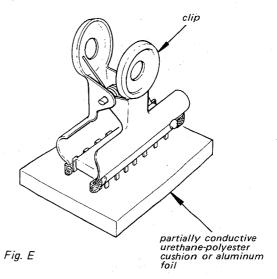
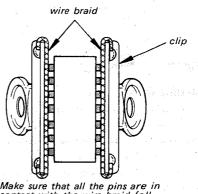


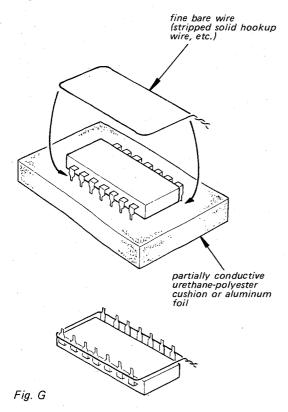
Fig. D Make sure that there is no solder on the inside.



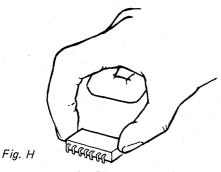


Make sure that all the pins are in contact with the wire braid (all the pins will then be at the same potential.).

• Take a short length of fine bare wire and wind it around the IC so that it shorts all the pins of the IC, while it is still in the urethane-polyester cushion or aluminum foil. This ensures that all the pins are at the same potential.



• When it is necessary to handle the IC with the fingers, do not touch any pin, and hold the IC at the ends of its plastic-package case as shown in Fig. H.



5. Method of Mounting

Insert the IC while holding it with the modified clip, and solder all the pins with the clip still shorting the pins. (Similarly, solder all the pins while the bare shorting wire is still wound around them.). Remove the clip or the bare shorting wire only after all the pins have been soldered.

Precaution while Checking C-MOS ICs

The C-MOS ICs (Complementary MOS) are MOS ICs that have their output sections made up of N-channel and P-channel push-pull stages to increase their speed of operation. If the output terminal of these ICs comes into contact with B+ or B- voltage, then the FET which is ON at that time will either become shorted or open.

This is valid for all the output sections that are connected together by the interconnections. Even the circuits that are physically separated (and not on the same board) can be destroyed simultaneously.

Example:

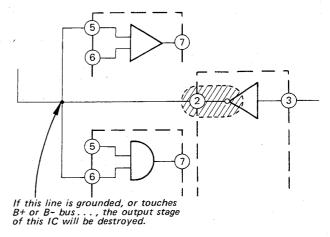


Fig. 1

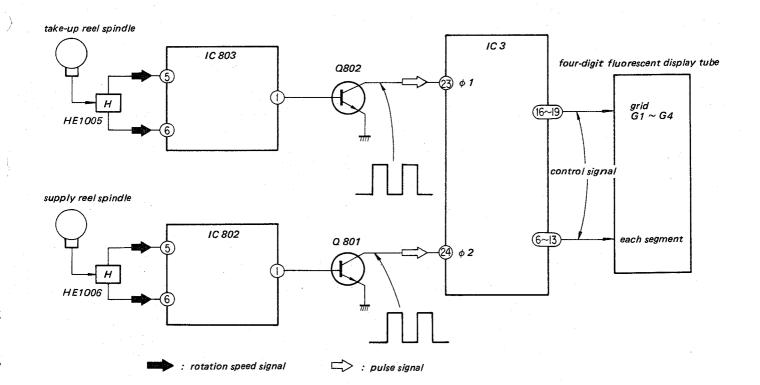
SECTION 1 OUTLINE

1-1. CIRCUIT DESCRIPTION

Linear Counter

This set uses a new type electrical tape counter, instead of the conventional belt-driven mechanical tape counter, by adopting a microcomputer. This tape counter displays the tape-travelling time linearly in actual time in continuous record and playback The tape-travelling time is calculated by the microcomputer IC3 by determining the rotational speeds of the reel spindles. This is done by detecting various factors such as the diameters of the remaining and wound tapes in the supply and take-up reel spindles, diameter of fully-wound tape, diameter of the reel hub, and the tape-travelling speed. This linear tape counter is intended for cassette tapes C-60, C-90 and C-120. The tape counter can not be used with cassette tapes C-46 and C-30. However, the display of the counter also runs linearly when using cassette tapes C-30 and C-46.

In the supply and take-up reel spindles, there is a magnet magnetized at the plural poles, which detects the rotation at the hall elements (HE1005, 1006), then obtains signals as to the rotation speed of supply and take-up reel spindles. These signals are applied to IC803, IC802 and amplified. The pulse output generated here is applied to terminals (23) and (24) of IC3 (microcomputer). processes and corrects the operation to make the pulse counting for one count per second, and processes carry and decarry operations. (6) to (13) output signals for each segment. Terminals (16) to (19) output grid-drive signals for the fluorescent display tube. Due to these output signals, the display tube displays four-digit digital minutes/seconds figures in a linear (time-wise) manner.

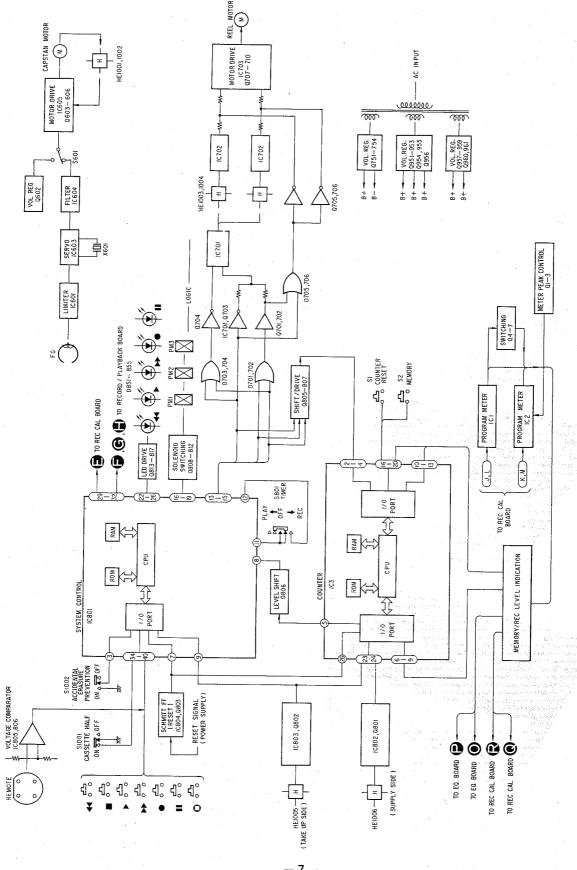


1-2. BLOCK DIAGRAMS - Audio Amp Section -TO METER BOARD TO SYSTEM CONTROL BOARD TO SYSTEM CONTROL BOARD VOL.REG. Q501—510 CNJI03 LINE OUT (VARIABLE) CNJ102 CINE OUT (FIXED) HRP-3 BIAS TRAP TO SYSTEM CONTROL BOARD | S502 | TYPE I – IV | REC EQ BUFFER AMP Q301 IC104 TO METER BOARD RV105 REC_LEVEL TO SYSTEM CONTROL BOARD (C) TO SYSTEM CONTROL BOARD TA TA PE SOURCE S503-2 MONITOR TAPE PB DOLBY NR TO SYSTEM CONTROL BOARD RVIO3 REC LEVEL S501-3 FILTER R-CH: SAME AS L-CH PAD

CNJJOI LINE IN

-6-

- System Control and Servo Amp Section -

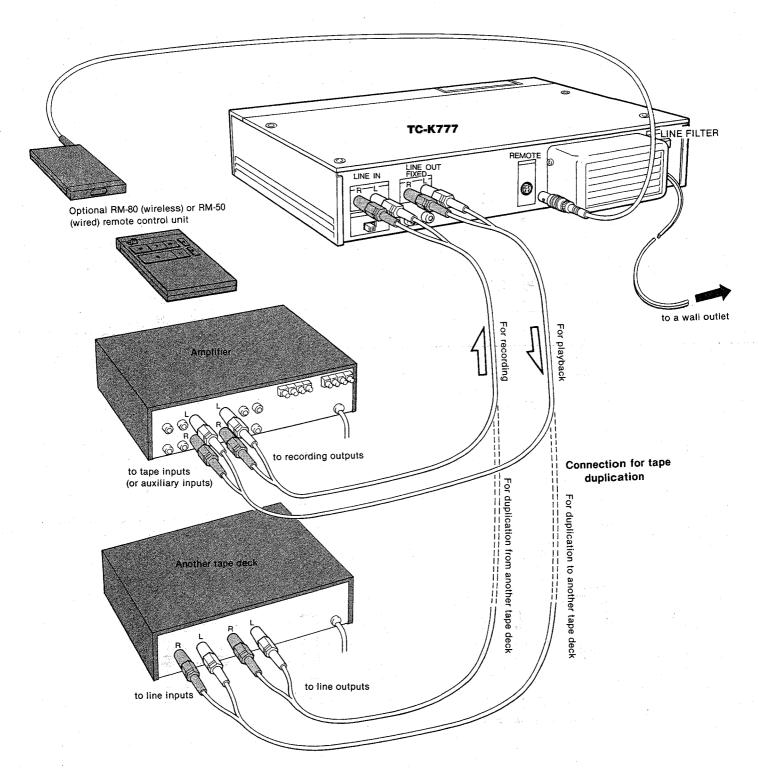


TC-K777

1-3. OUTLINE CONNECTIONS

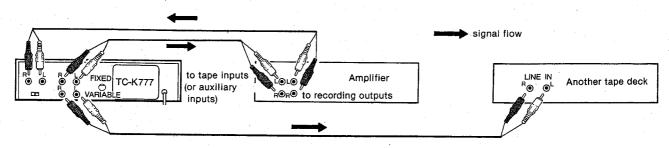
Notes

- •Turn the amplifier off before making any connection.
- Be sure to insert the plugs firmly into the jacks. Loose connections may cause hum and noise.
- ●The red plug of the supplied connecting cord should be connected to the red jack (R: right channel) and the other plug to the white jack (L: left channel).



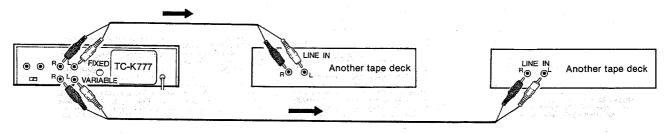
CONNECTIONS USING TWO TYPES OF LINE OUT JACKS

To use another tape deck to duplicate a tape being played without disconnecting the amplifier:



You can duplicate tapes while listening to speakers.

Duplication by two tape decks:



You can duplicate a tape on two decks at the same time.

REMOTE Control Connector

Connect the optional RM-80 (wireless) or RM-50 (wired) remote control unit to operate the tape transport functions from a distance. Read the instruction manual of your remote control unit before operating it.

LINE OUT Jacks

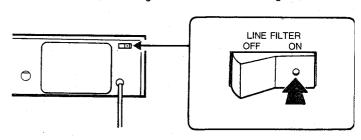
Either the FIXED or VARIABLE LINE OUT jacks can be used.

FIXED: The output level from these jacks is fixed regardless of the setting of the LINE OUT/HEADPHONES level control.

VARIABLE: The output level from these jacks can be adjusted by the LINE OUT/HEADPHONES level control. We recommend that you use these jacks when you want to match the output level of the tape deck with that of any other equipement connected to the amplifier.

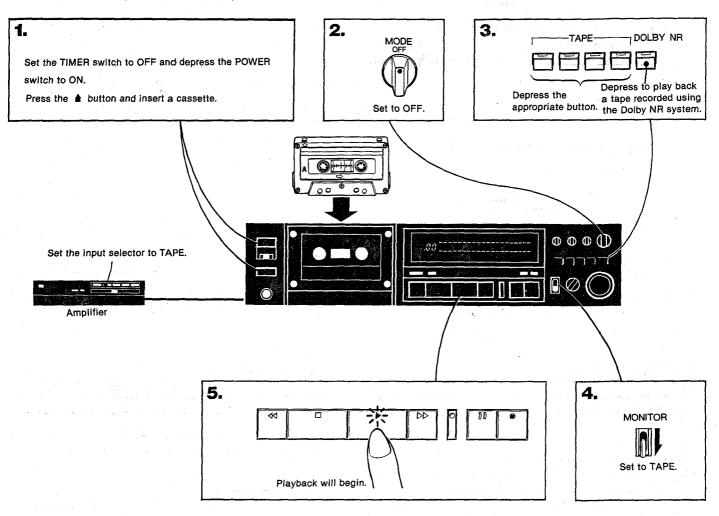
LINE FILTER Switch

The line filter reduces the noise produced by an household electric appliance (such as a refrigerator, a fluorescent light, or an air conditioning unit) and transmitted by the ac power cord (mains lead). Since the line filter has an effect on the tone quality, we recommend that you set the LINE FILTER switch to ON only when the line noise is so loud that it might be heard on recording.



PLAYBACK

The numbers in this diagram indicate the sequence to be followed.



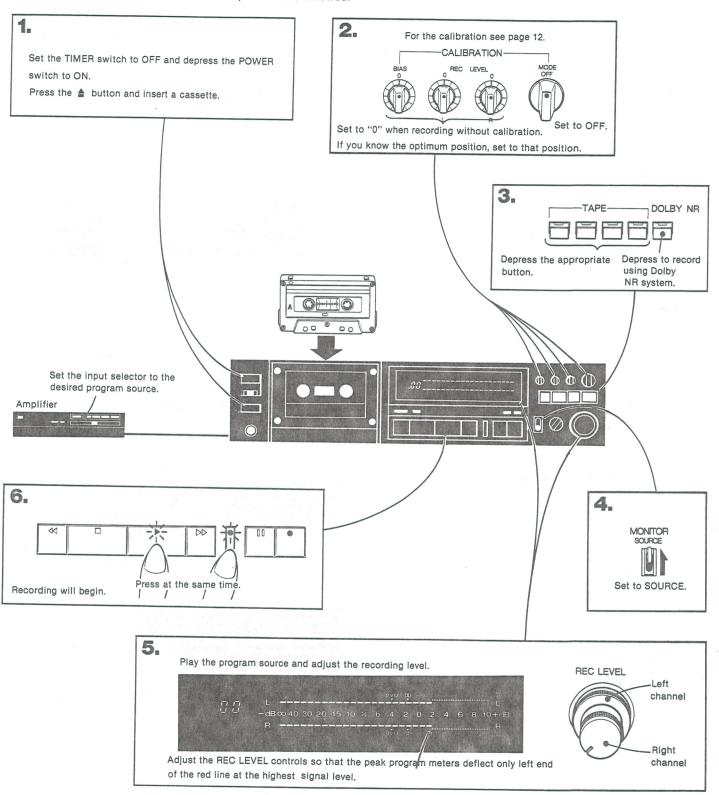
RECOMMENDED SETTINGS FOR TAPE SELECT BUTTONS

Tapes	TAPE	
SONY: AHF, BHF BASF: ferro super LH I MAXELL: UD, UD-XL I SCOTCH: MASTER I	AGFA: SUPER FERRO DYNAMIC FUJI: FX-I PHILIPS: SUPER FERRO-I TDK: SD	TYPE I (NORM)
SONY: CD-2 BASF: chromdioxid MAXELL: UD-XL II SCOTCH: MASTER II	AGFA: STEREO CHROM FUJI: FX-II PHILIPS: CHROMIUM TDK: SA	TYPE II (CrO ₂)
SONY: FeCr BASF: ferrochrom SCOTCH: MASTER III	AGFA: CARAT PHILIPS: FERRO CHROMIUM	TYPE III (Fe-Cr)
SONY: METALLIC	Other metal tapes	TYPE IV (METAL)

RECORDING

TO RECORD

The numbers in this diagram indicate the sequence to be followed.



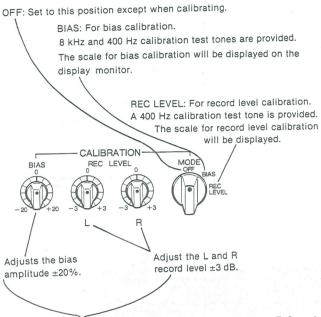
TO RECORD MATERIAL ONTO A SPECIFIC PORTION OF TAPE

When you want to re-record a specific portion of tape or to insert new material between two points on a tape you will find it handy to be able to change directly from the playback to the record mode by pressing the record button while holding the forward button down.

BIAS/REC LEVEL CALIBRATION

There are many different cassettes on the market and their characteristics vary. The appropriate equalization characteristics and bias current will be obtained when the appropriate TAPE button is pressed. With the TC-K777 cassette deck you can adjust the recording characteristics much more precisely using the bias and record level calibrating function.

CALIBRATION SECTION



The "0" positions are factory preset with Sony BHF, CD-lpha, FeCr and METALLIC cassettes.

•When the CALIBRATION MODE switch is set at BIAS or REC LEVEL, the input and output signals are cut off internally and no sound is heard, regardless of the position of the MONITOR switch.

BIAS CALIBRATION

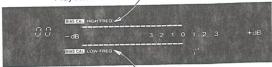
Too high a bias level gives a rolled-off high-frequency response, and too little bias reduces the signal-to-noise ratio and increases distortion.

To adjust the bias current to the level which results in the best possible frequency response, proceed as follows.

- 1. Insert the cassette to be recorded.
- 2. Press the appropriate TAPE button according to the type of tape.
- 3. Set the MODE switch to BIAS.
- Record the calibration test tones by pressing the button and the ▶ button.

The meter shows the playback level of the calibration test tone, regardless of the position of the MONITOR switch.

Playback level of the 8 kHz calibration test tone



Playback level of the 400 Hz calibration test tone

5. Adjust the BIAS control so that the upper and lower meters deflect to the same point.

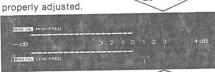
The bias level is low.

(The deflection of the upper meter is larger.)

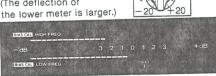


Apply more bias current.

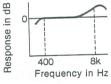
The bias level is

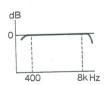


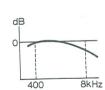
The bias level sis high. Reduce bias current. (The deflection of the lower meter is larger.)



Frequency response







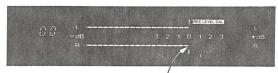
ullet As small variations in bias amplitude have practically no effect on the frequency response of metal tape, the optimum bias setting may not be obtained within the $\pm 20\%$ range of the BIAS control.

BIAS

REC LEVEL CALIBRATION

The Dolby NR function is most effective when the recording level and the playback level are the same. Before making a recording, first calibrate the bias level, then calibrate the record level as follows. Tape sensitivity will be compensated for automatically.

- 1. Set the CALIBRATION MODE switch to REC LEVEL.
- Record the calibration test tone by pressing the button and the ► button.
 - The meters show the playback level of the calibration test tone regardless of the position of the MONITOR switch.
- Adjust the REC LEVEL controls (L and R) so that the meters deflect to the indicated point.



Let the meters deflect to this point.

The bias current is now adjusted to the optimum level and the tape sensitivity is compensated for.

Be sure to set the CALIBRATION MODE switch to OFF.

In order to erase the recorded calibration test tones, rewind the tape and start recording.

RECORDING LEVEL ADJUSTMENT

Adjust the recording level while monitoring on the peak program meters the input level of the program source to be recorded. If the recording level setting is too high, the recording will be distorted, and if the setting is too low, the recording will be noisy. The recording level should be set as high as possible while still avoiding distortion. This level will depend on the type of tape being used. When the TAPE button is pressed, the range above the saturation level of the selected type of tape is indicated by the red line. Generally speaking, adjust the recording level by making sure that the meters deflect only to the left end of the red line at the highest signal level.

Example: Type I cassette

Saturation level of Type I cassette

Saturation occurs.

Over Fig. 1

OBS 40 30 20 15 10 B 6 4 2 0 2 4 6 B 10+0B

R

Since the saturation level of any tape is lower in the higher frequencies than in the lower frequencies, the recording level may still be too high if adjusted in this way if the program to be recorded contains many high frequency signals. Consideration has to be given to the program source to be recorded as well as to the characteristics of the cassette to be used, since each cassette, even cassettes using the same type of tape, may have different characteristics. The following table will provide you with a starting point in setting the recording level of various kinds of programs when using Sony cassettes.

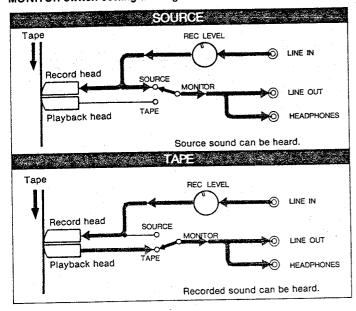
Type of tape	Sony cassettes Low and mid freq. range programs (vocal, etc.)		Mid and high freq. range programs (piano, guitar, etc.)
I	BHF	+ 3 dB	+ 1 dB
	AHF	+ 4 dB	+ 2 dB
11	CD-α	+ 2 dB	+ 2 dB
III	FeCr	+ 5 dB	+ 1 dB
IV	METALLIC	+ 6 dB	+ 6 dB

RECORD MONITORING

As this tape deck has separate record and playback heads, you can easily compare the source and the recorded sounds in the recording mode by using the MONITOR switch. You can check the recording level and whether there is any contamination on the heads that is affecting the recording.

•If the connected amplifier has a tape monitor selector, source/ tape comparison is possible with the amplifier monitor selector. In this case, set the tape deck MONITOR switch to TAPE.

MONITOR switch setting and signal flow



CHECKING THE AVAILABLE TAPING TIME

-The use of the tape counter-

The first two digits of this tape counter show the approximate recording or playback time in minutes, and the last two digits show the seconds.

To check how much longer you can record

Stop the tape and press the COUNTER RESET button to set the counter to ".00," press the ▶▶ button and let the tape run to the end. The digits on the counter will show the approximate remaining recording time.

To rewind the tape to the ".00" point, use the memory stop function

To check the available recording time on one side of a cassette At the beginning of the tape set the counter to ".00," press the ▶▶ button and let the tape run to the end. The digits on the counter will show the approximate available recording time.

Note

Do not turn off the power while measuring the time because the numbers will return to ".00" when the power is turned on again.

The accuracy of the counter

This counter is not actually a digital clock, so that the displayed figures are not exactly equal to the actual time spent. The accuracy will vary depending on the type of tape being used.

This counter has been designed using C-60 cassettes as a standard. Make sure that the displayed time is greater than the required actual time when using a C-46 or C-30 cassette.

ERASING

When the tape deck functions in recording mode, the erase head automatically erases any previously recorded material.

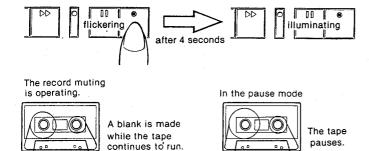
To erase without recording:

- 1. Make sure that the safety tab of the cassette is in place, or that the tab slot is covered with plastic tape.
- 2. Set the REC LEVEL controls fully to "0". (Disconnecting all inputs will result in a more complete erasure.)
- 3. Press the appropriate TAPE select button according to the type of tape to be erased. (The TYPE IV button assures good erasing for any type of tape.)
- 4. While holding the record button [.] down, press the forward button [►].

RECORD MUTING

By pressing the REC MUTE button during recording, four seconds interspacing is provided automatically, eliminating unwanted program material such as broadcasting commercials. While the record muting is operating, the incoming signal is not recorded on the tape but it continues to register on the meters and feed to the monitor so that you know exactly what is going on.

 Press the REC MUTE button when the segment you do not want to record begins. The indicator of the pause button [ii] will blink, and the tape path will pause automatically after four seconds.



2. When you want to resume recording, press the pause button.

To insert a blank less than four seconds long

Press the REC MUTE button to mute recording. Press the pause button when you want to resume recording.

To insert a blank over four seconds long

Hold down the REC MUTE button for as long as you want the blank segment on the tape to be. After four seconds, the indicator of the pause button will blink more rapidly. When you release the REC MUTE button, the tape deck will be in the pause mode. When you want to resume recording, press the pause button to release the pause mode.

AUTO PLAY

To rewind the tape and play from the beginning of the tape use the auto play function. The tape deck can automatically replay a tape immediately after rewinding.

- Check that the word "MEMORY" is not displayed on the tape counter. If it is displayed, press the MEMORY button.
- 2. When you rewind the tape, press the ◀◀ button and the ▶ button simultaneously.

After the tape is completely rewound, the tape will automatically replay.

MEMORY STOP/PLAY

To rewind the tape to a desired point use the memory stop function. To play from a desired point use the memory play function. You can easily locate any particular point on a tape.

- At the desired point on the tape, press the COUNTER RESET button to turn the tape counter to ".00."
- Press the MEMORY button. The word "MEMORY" will be indicated.



- 3. Play back or record on the tape.
- 4. Rewind the tape in either of the following ways:

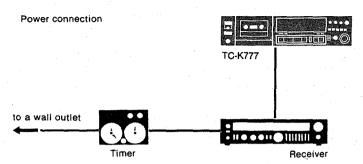
For memory stop: Press the ◀◀ button. The tape stops automatically when it is rewound to the ".00" point.

For memory play: Press the ◀ button and the ▶ button simultaneously. The tape will replay automatically after rewinding up to the ".00" point.

If you wish to rewind further than the ".00" point, press the ◀ button again.

TIMER-ACTIVATED RECORDING AND PLAYBACK

By connecting any commercially available timer to the tape deck, the deck can be set to play back or record automatically at any desired time. As timers work in different ways, be sure to read the timer's instruction manual carefully.



To record a broadcast using a timer

- Connect the tape deck, receiver and timer. Set the timer so that power is supplied to the connected equipment.
- 2. Turn on the receiver and tune in the station which will broadcast the program you want to record.
- 3. Set the tape deck's TIMER switch to OFF.
- Insert a cassette. Make sure that the tab is intact or that plastic tape covers the tab slot.
- 5. Turn on the tape deck and adjust the recording level.
- Set the timer for the desired time. (At this point power to the connected equipment will be cut off.)
- Set the tape deck's timer switch to REC.
 The tape deck is now ready to start recording at the time set on the timer.

To play back using a timer

The connections between equipment are the same as for recording using a timer.

- 1. Set the tape deck's TIMER switch to OFF.
- Turn on the receiver and set the appropriate switches for playback.
- 3. Turn on the tape deck and insert the recorded cassette.
- Set the timer for the desired time. (At this point power to the connected equipment will be cut off.)
- 5. Set the tape deck's timer switch to PLAY. The tape deck is now ready to start playback at the time set on the timer.

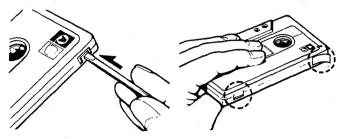
Note

The tape deck's timer switch will function properly only if the tape deck is turned on after the switch is set to REC or PLAY. Do not change the setting of the timer switch during the four second stand-by period immediately after the power is turned on. If you want to change the setting of the switch, turn the power off first.

NOTES ON CASSETTES

To protect cassettes from accidental erasure

Remove the tab as illustrated so that the record mode does not function when the record button is pressed. To record on a cassette once tabs have been removed, simply cover the slot with plastic tape.



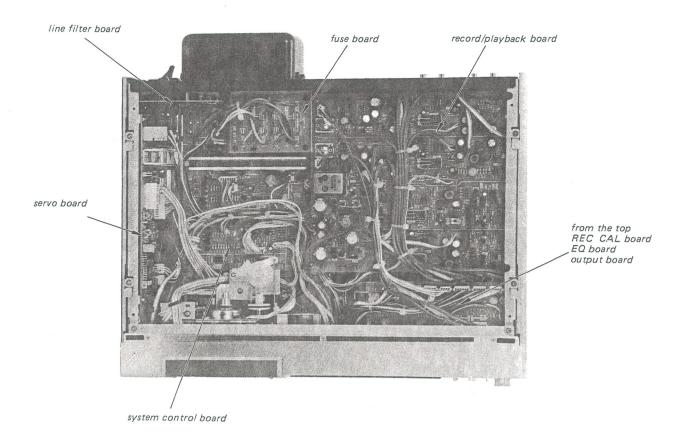
To protect side A recording

Do not stick any other material except on the portion marked.

Cassette care

- Avoid touching the tape surface of a cassette, as any dirt or dust will contaminate the heads.
- Do not stick thick labels or tape on the cassette, as this may affect proper cassette alignment and prevent the tape from making proper contact with the heads.
- Keep cassettes away from equipment with magnets, such as speakers and amplifiers, because their magnets could cause erasures or distortions of your recorded tapes.
- Protect cassettes from dust by storing them in their cases. Even minor dirt or dust could contaminate the heads, resulting in noise and sound drop-outs.
- ●Do not expose cassettes to direct sunlight, extremely cold temperature or moisture.
- Avoid fast-winding just before storing cassettes, as this may stretch the tape edge if the cassettes are left unused over a period of time.

1-4. PHOTO OF INNER SECTION

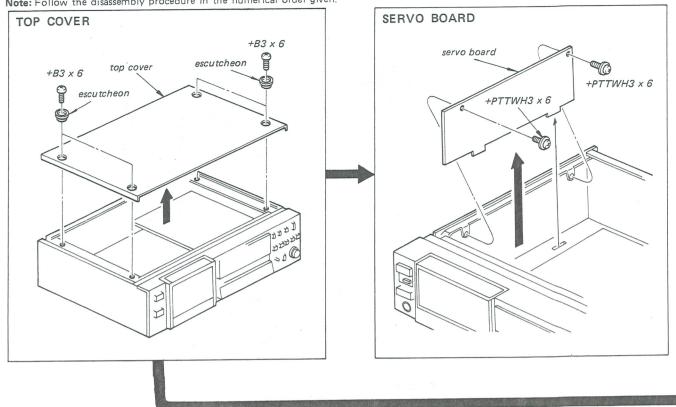


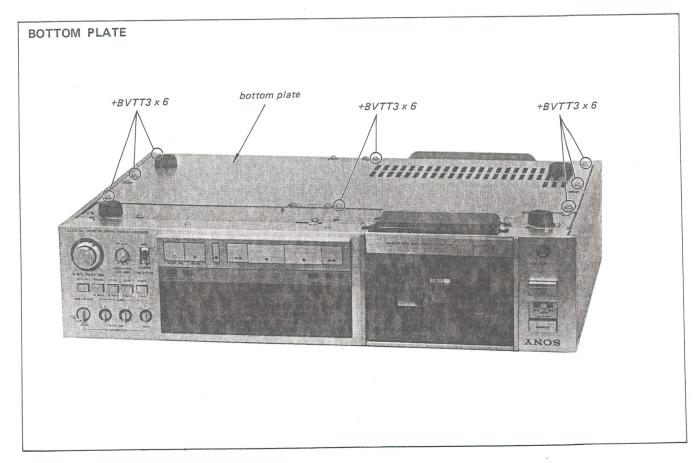


SECTION 2

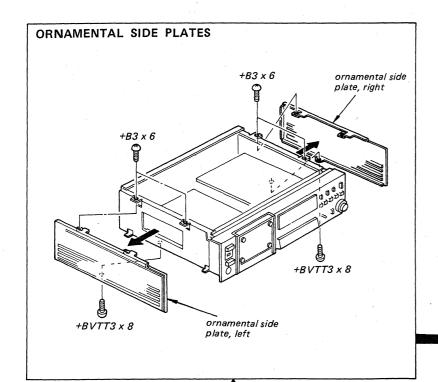
DISASSEMBLY

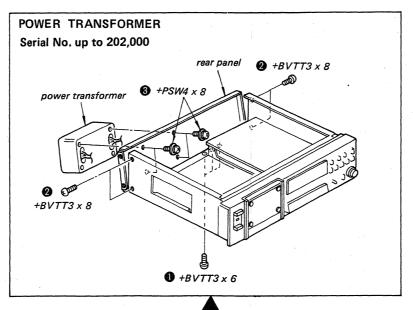
Note: Follow the disassembly procedure in the numerical order given.

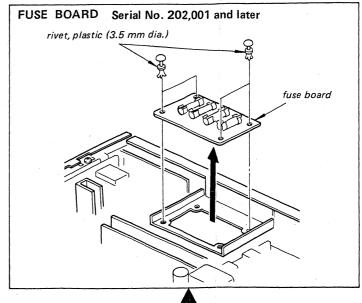


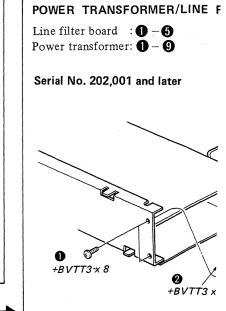


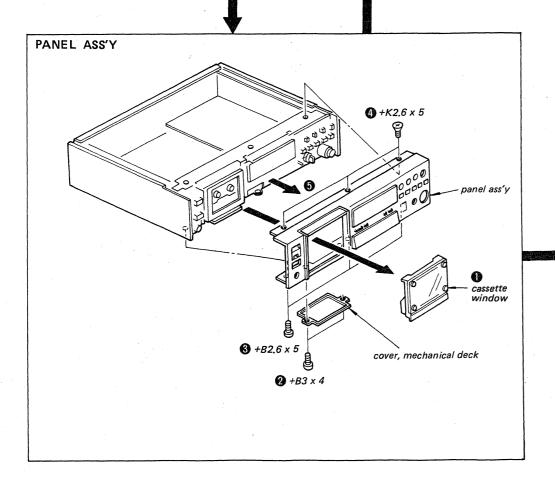
TC-K777 TC-K777

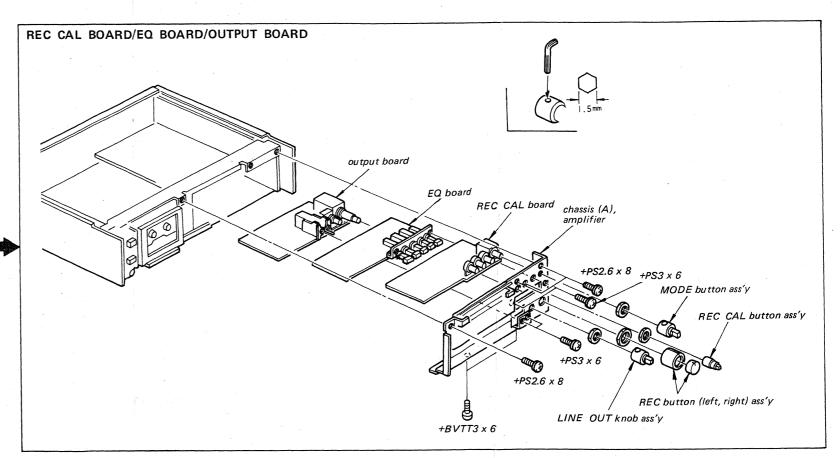




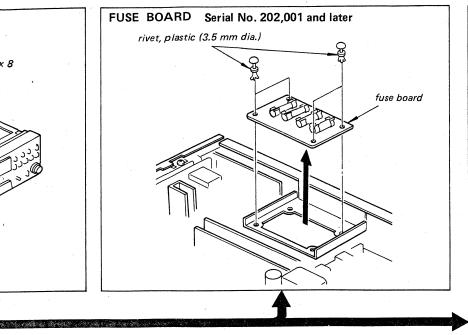


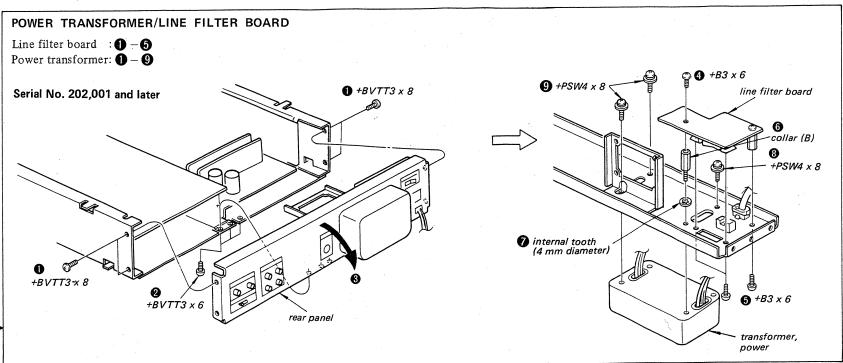


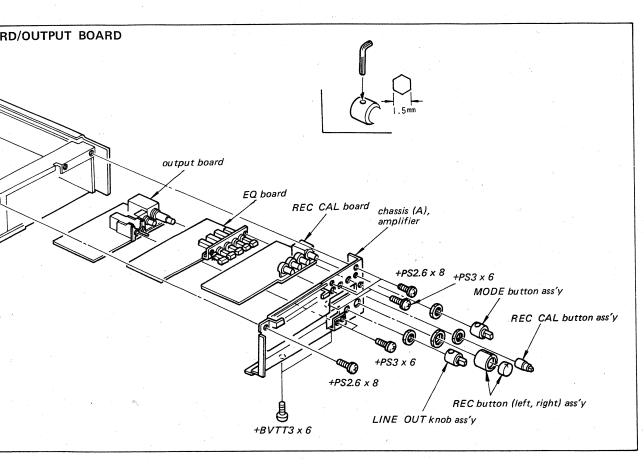


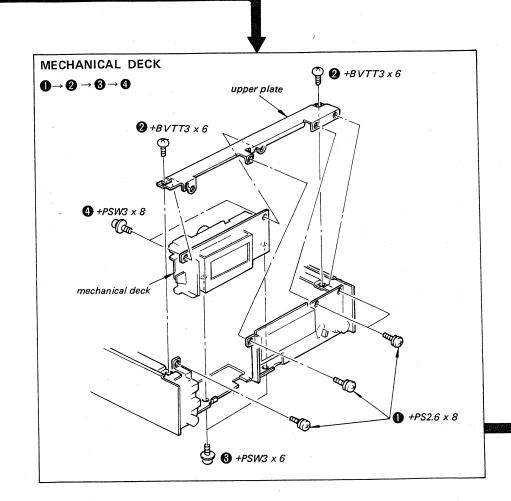


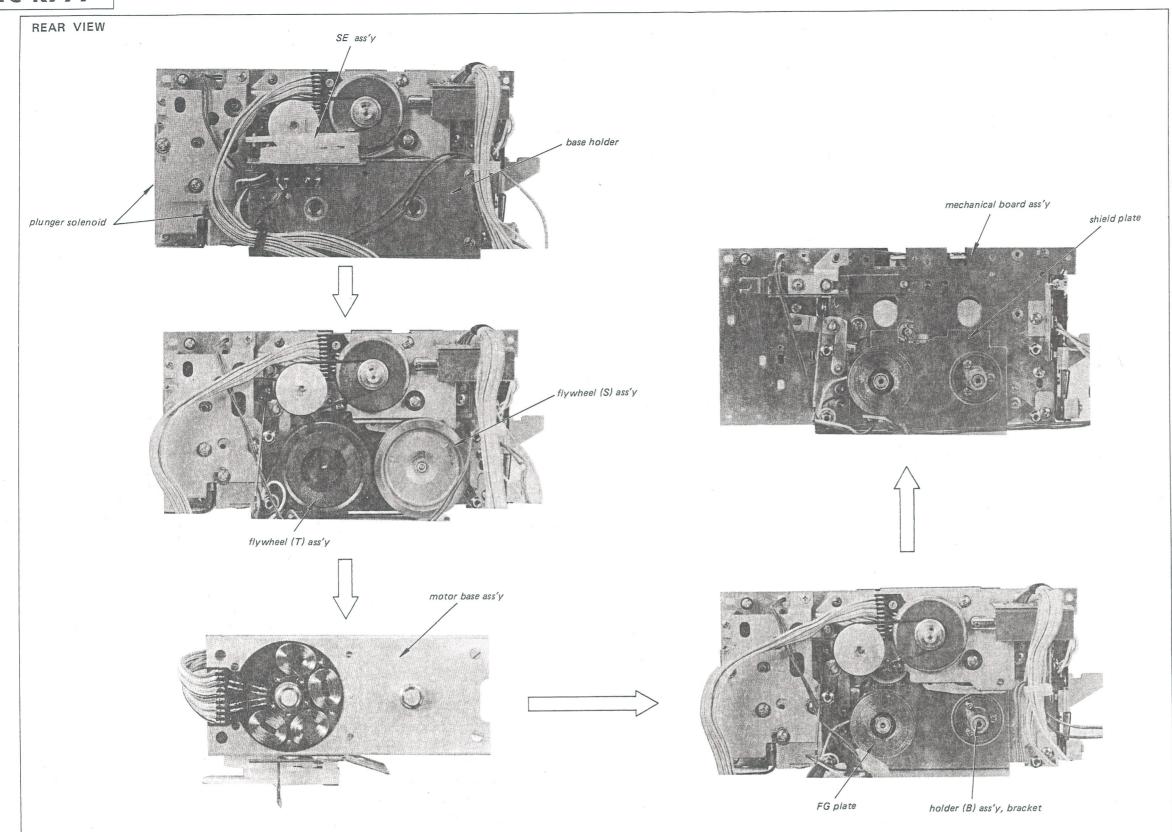
-K777

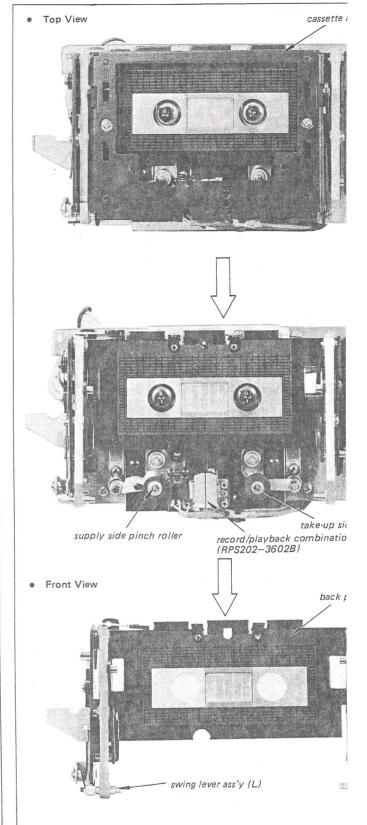


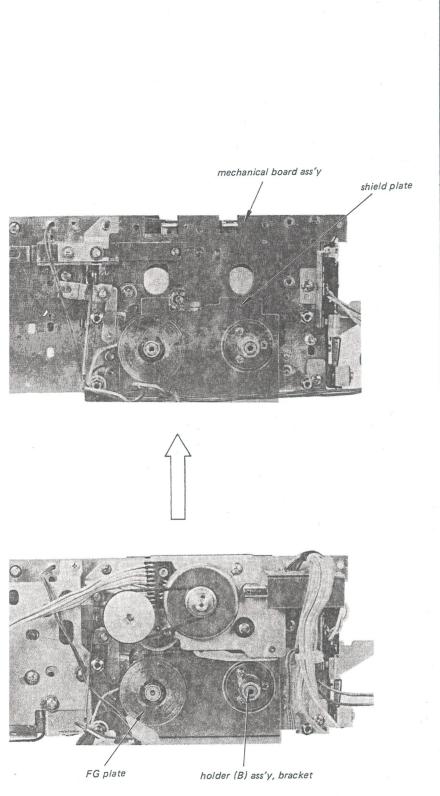


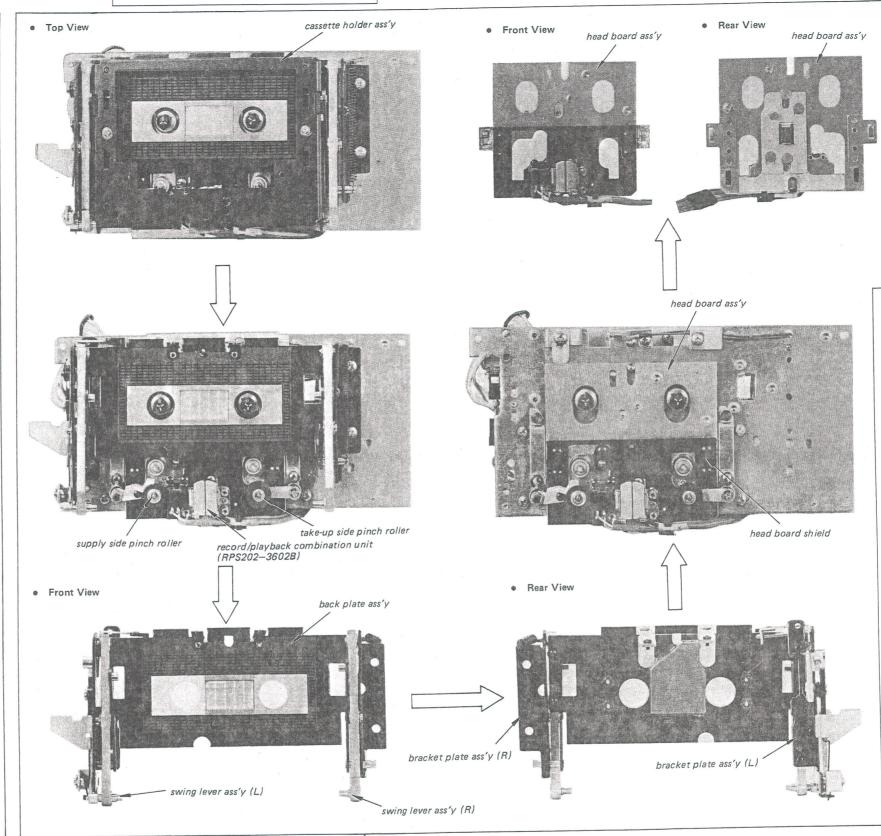


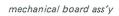


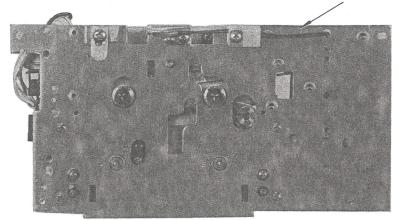




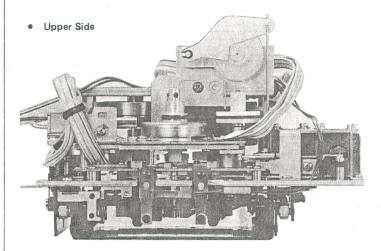




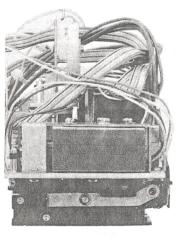




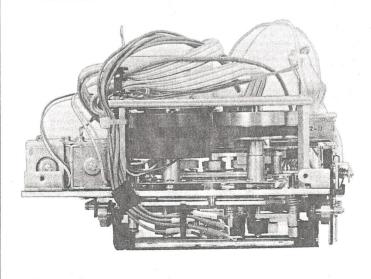
PHOTOS OF ASSEMBLED PARTS



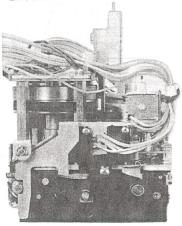




• Lower Side



Left Side

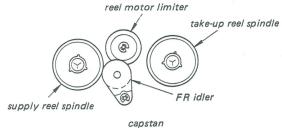


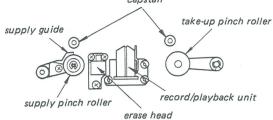
SECTION 3 **ADJUSTMENTS**

3-1. MECHANICAL ADJUSTMENTS

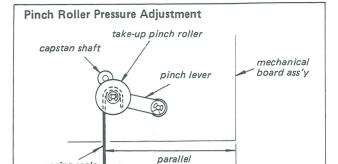
Precaution

1. Clean the following parts with a denatured alcohol-moistened swab.





- 2. Demagnetize the record/playback head with a head demagnetizer.
- 3. Do not use a magnetized screwdriver for the adjustments.



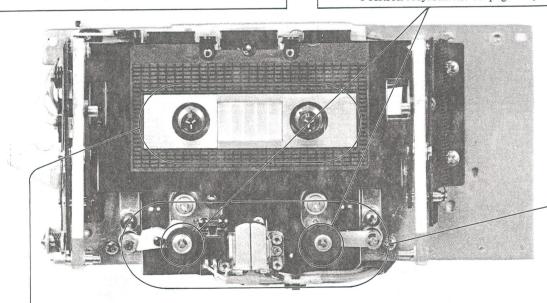
- Make sure that the capstan shaft and pinch roller are parallel.
- 2. In forward mode, pull the spring scale slowly so that it is parallel to the surface of the mechanical board ass'y and read the spring scale when the pinch roller stops rotating.

Specification

spring scale

pinch roller pressure		
take-up side	220 - 380 g	
supply side	180 − 280 g	

If necessary, change the position of pinch roller plunger. (Refer to Pinch Roller/Head Plunger Position Adjustment on page 28.)



Brake Torque Adjustment

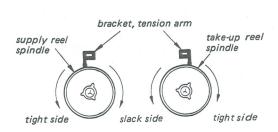
Specification

Tight side:

 $100 - 200 \text{ g} \cdot \text{cm} (1.4 - 2.8 \text{ oz} \cdot \text{inch})$

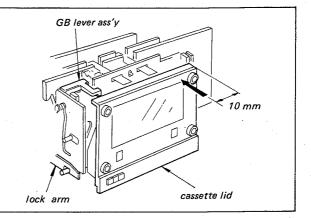
Slack side:

less than 90 g·cm(1.3 oz·inch)



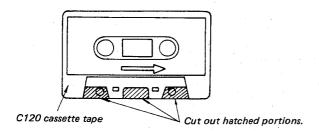
Cassette Holder Operation

- Insert a cassette tape (C-90 with erasure prevention tab) into the cassette holder and push the portion shown by the arrow. Make sure that the cassette holder is locked, the GB lever ass'y is lowered and the lock arm returns completely.
- 2. Make sure that the cassette holder opens smoothly in 0.6 -1.5 seconds.



Head Height Adjustment

 Make an adjustment cassette as shown below or use a mirror cassette.



2. Install the mirror cassette (or adjustment cassette) in the set. In playback mode, the tape should not curl at the portions shown by arrows (tape guides) in Fig. a.

If the tape curls, adjust the height of tape guide of supply pinch roller.

Adjustment locations:

adjustment screw of tape curl in Fig. b (Be careful not to turn the screw more than 1/2 turn.)

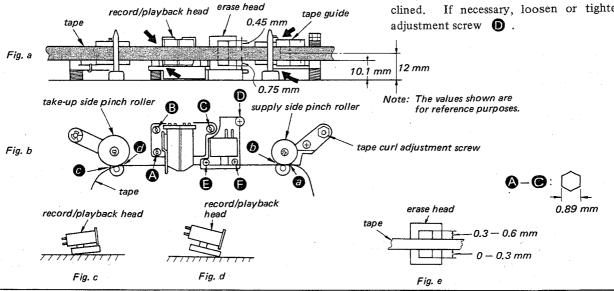
Back tension: 0
Make sure that there is no tape twist at portions
- 0

- 1. When the tape twists upwards:
 Turn adjustment screws **B**, **G** of the record/playback head and recline the head as shown in Fig. C.
- 2. When the tape twists downwards:
 Turn adjustment screws **B**, **O** and recline the head as shown in Fig. D.
- 4. Measure the height of erase head.

 If it is out of the range indicated in Fig. e, follow the procedures below.
 - When the height of erase head is out of the range:
 Loosen screws of the erase head and adjust the height by the adjust-

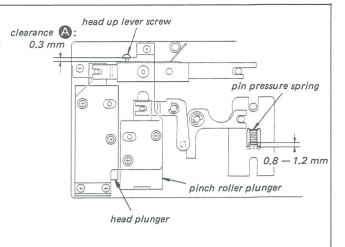
ment shim of the erase head. erase head adjustment shim

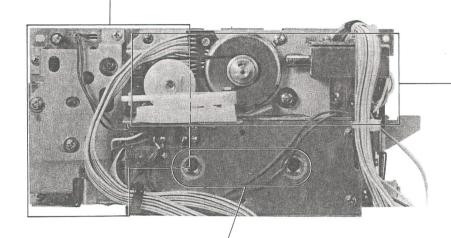
2. After adjusting the height of the erase head, make sure that the head is not inclined. If necessary, loosen or tighten adjustment screw **①**.



Pinch Roller/Head Plunger Position Adjustment

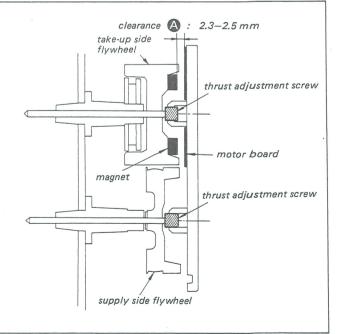
- Position the head plunger so that clearance
 is 0.3 mm.
- 2. Move the head plunger and the pinch roller plunger and adjust the position of the pinch roller plunger so that the pin pressure spring can move in the range of 0.8 mm 1.2 mm.
- 3. Lock the plunger screw with suitable locking compound.





Take-up Side/Supply Side Flywheel Thrust Adjustment

- Take-up Side Flywheel
 Insert a spacer of 2.4 mm between the flywheel magnet and motor board and adjust the position of the magnet so that clearance is between 2.3 mm and 2.5 mm.
- 2. Supply Side Flywheel Tighten the thrust adjustment screw lightly till the flywheel does not move and then loosen it by 1/2 3/4 turns.
- 3. After the adjustment, lock the adjustment screw with suitable locking compound.



Forward Torque/Back Tension Torque Adjustment

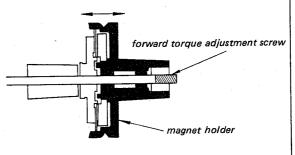
- 1. Loosen adjustment screws of the forward torque and back tension torque till the magnet holder does not move and then tighten them by 1/2
- 2. Connect the cassette torque meter (CQ-102B) and measure forward torque and back tension. If they do not meet the specifications, adjust the back tension adjustment screw.

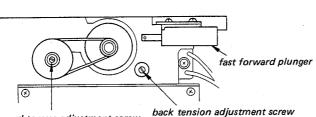


forward torque back tension torque 35 - 45 g⋅cm

7-9 g·cm

3. Lock the adjustment screw with suitable locking compound.

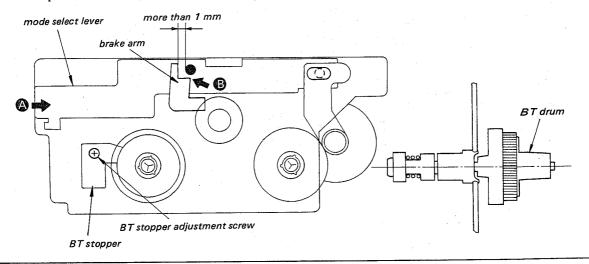




forward torque adjustment screw

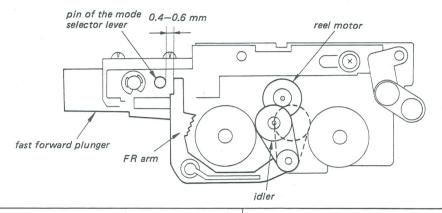
Check of BT Stopper Position

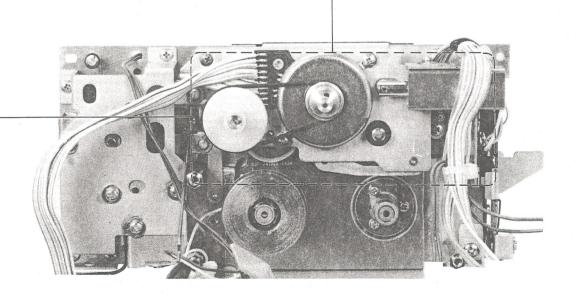
- 1. Loosen the BT stopper adjustment screw, push the mode select lever in the direction of arrow A and fix the BT stopper to the reel spindle with the adjustment screw.
- 2. Move the brake arm in the direction of arrow B , remove the brake from the reel spindle and confirm that the BT drum does not rotate together with the reel spindle.
- 3. Make sure that the clearance between the mode select lever and the brake arm is more than 1 mm when the mode select lever returns to its original position.



Fast Forward Plunger Position Adjustment

- 1. Push the fast forward plunger.
- 2. Turn the reel motor clockwise (fast forward mode). When the idler and the reel spindle come into contact, adjust the position of the fast forward plunger by loosening the screw so that the clearance between the FR arm and the mode selector lever pin is between 0.4 mm and 0.6 mm.
- 3. Next, turn the reel motor counterclockwise (rewind mode) and adjust to obtain the same result as in step 2.
- 4. Lock the screw with suitable locking compound.





3-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

 Set the TAPE switch according to the test tape as follows.

Tape	TAPE Switch
CS-15	TYPE I
CS-25	TYPE II
CS-30	TYPE III
CS-40	TYPE IV

• Switches and controls should be set as follows unless otherwise specified.

CALIBRATION MODE	OFF
REC LEVEL (L/R)	MED
CALIBRATION BIAS	
REC LEVEL	MED
DOLBY NR	OFF
TAPE	TYPE I
LINE OUT	0 dB
MONITOR	SOURCE
TIMER	OFF

Standard Record:

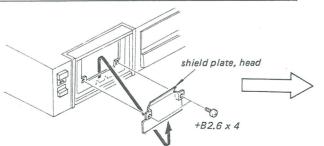
Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

Standard Input Level

Input Terminal	LINE IN	
source impedance	10 kΩ	
input level	0.25 V (-10 dB)	

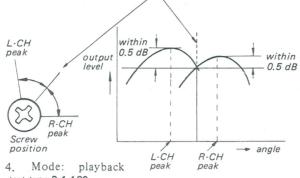
Standard Output Level

Output Terminal	LINE OUT	HEADPHONES	
load impedance	47 kΩ	8 Ω	
output level	0.44 V (-5 dB)	39 mV (-26 dB)	

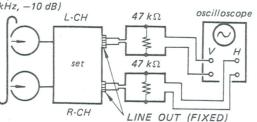


1. Record/playback Head Azimuth Adjustment Procedure: 1. Loosen the head-holding screw. 2. Mode: playback test tape P-4-A82 (10 kHz, -10 dB) VTVM

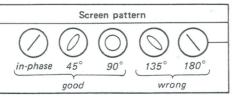
3. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 0.5 dB.

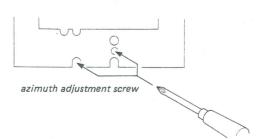


test tape P-4-A82
(10 kHz, -10 dB)



Adjust the adjustment screw for a good pattern.



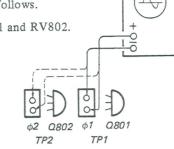


2. Speed Detecting Head Adjustment

Procedure:

- Install blank cassette tape CS-15 and set the unit in fast-forward or rewind mode.
- 2. Connect an oscilloscope to the test points as follows.

3. Adjust RV801 and RV802.

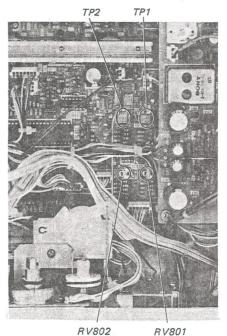


Specification:

Oscilloscope Connection	Adjust	Waveform	
TP1 (φ1)	RV801	A B A = B	
TP2 (φ2)	RV802	(both within ±10 %)	

Adjustment Location:

- system control board -



Adjustment Location: - servo amp board -

3. Capstan Motor Adjustment

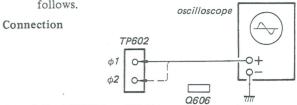
Setting:

POWER switch: ON

Mode: stop

Procedure:

- 1. Set S601 to DC side (full-counterclockwise position).
- 2. Connect an oscilloscope to the test points as



3. Adjust RV602 to RV605.

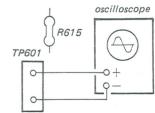
GAIN

GAIN		
Oscilloscope Connection	Adjust	Waveform
ΤΡ602 (φ1)	RV602	A
TP602 (φ2)	RV604	A = 3.6 - 4.4 V p-p

OFFSET

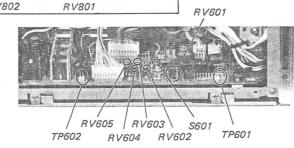
011021		
Oscilloscope Connection	Adjust	Waveform
TP602 (φ1)	RV603	0 V
TP602 (φ2)	RV605	U V

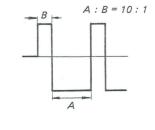
- 4. Set S601 to SERVO side (full-clockwise position).
- 5. Connect an oscilloscope to the test points as follows.



6. Adjust RV601 to obtain square waveforms as shown below.

Specification:





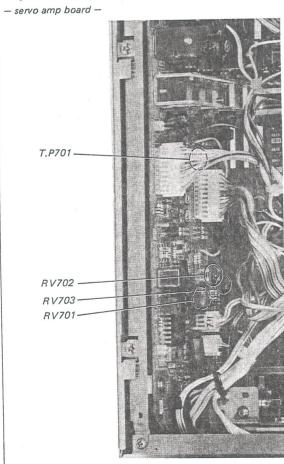
4. Reel Motor Adjustment

Procedure:

- Set the unit in playback mode with a tape cassette installed.
- 2. Adjust RV702 so that the output frequency of TP701 is between 48 and 52 Hz.
- 3. Remove the cassette and adjust RV703 so that output frequency of TP701 in rewind mode is the same as that in fast forward mode.
- 4. Adjust RV701 so that output frequency of TP701 is 140 144 Hz.



Adjustment Location:

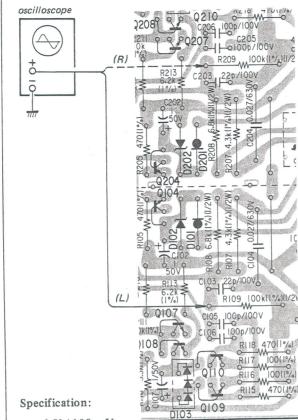


5. Playback Offset Adjustment

Procedure:

Adjust RV101 (L-CH), RV201 (R-CH) so that output level at test points, R109 (L-CH), R209 (R-CH) is 0 V \pm 100 mV.

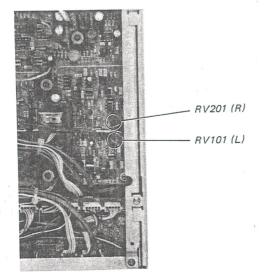
Connection:



0 V ±100 mV

Adjustment Location:

record/playback board –

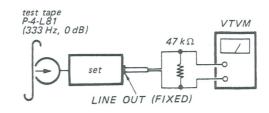


6. Playback Level Adjustment Setting:

TAPE SELECT switch: TYPE I

mode: playback

Procedure:



Adjust RV102 (L-CH) and RV202 (R-CH) to obtain the specified LINE OUT level.

Specification:

LINE OUT level: 0.52 - 0.58V

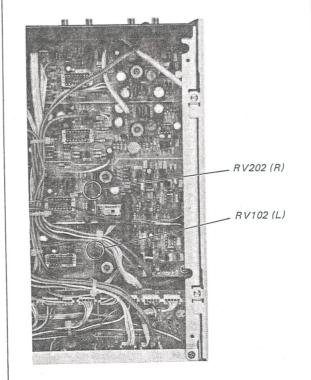
 $(-3.5 \ to \ -2.5 dB)$ Level difference between channels:

less than 0.5dB

Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location:

- record/playback board -



7. Record Level Adjustment

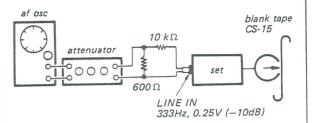
Setting:

REC LEVEL control: standard record

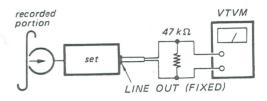
(See page 31.)

Procedure:

1. Mode: record



2. Mode: playback



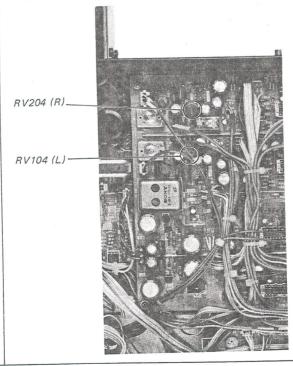
Adjust RV104 (L-CH) and RV204 (R-CH) to obtain 0.44V (-5dB) LINE OUT level.

Specification:

LINE OUT level: 0.39 - 0.49V

(-6 to -4 dB)

Adjustment Location: - record/playback board -



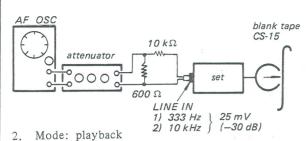
8. Record Bias Adjustment

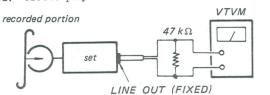
Setting:

REC LEVEL control: standard record (See page 31.)

Procedure:

1. Mode: record



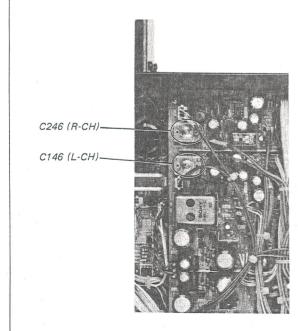


Adjust C146 (L), C246 (R) to obtain the same playback level at 333 Hz and 10 kHz.

3. Repeat steps 1 and 2. Be sure to finish adjusting C146, 246 by turning them clockwise.

Adjustment Location:

- record/playback board -

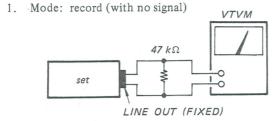


9. Record-Bias Trap and Bias Osc Frequency Adjustments

Setting:

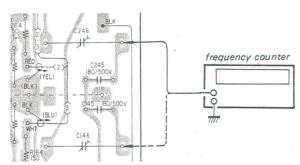
TAPE switch: TYPE IV MONITOR switch: TAPE

Procedure:



- 2. Adjust L101 (L-CH) and L201 (R-CH) so that LINE OUT level is less than 2.5 mV (-50 dB).
- 3. Next, connect the frequency counter with a trimmer capacitor (C146 or C246) and adjust bias osc frequency by turning red core of OSC501 (bias osc unit) so that the reading is 103-107 kHz.

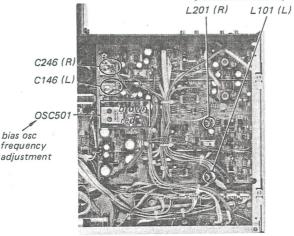
Note: Never turn brown core.



Adjustment Location:

- record/playback board -





10. Meter Adjustment

Setting:

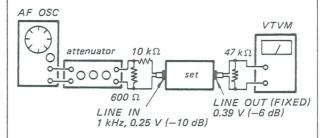
PEAK HOLD reset switch: MANUAL

REC LEVEL control : standard record

(See page 31.)

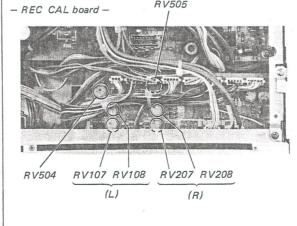
Procedure:

1. Mode: record



- 2. Set RV504, 505, 108 (L-CH), 208 (R-CH) at mechanical center.
- 3. Turn the REC LEVEL control so that the LINE OUT level is -6 dB when LINE IN level is at 1 kHz.
- 4. Adjust RV107 (L-CH), 207 (R-CH) so that the segment one above the -6 dB indication of meter lights up.
- 5. Set LINE OUT level to 0.44 V (-5 dB) and adjust RV504, 505 so that the segment one below 0 VU (-4 dB) indication goes off.
- 6. Next, set LINE OUT level to 2.2 V (9 dB) and adjust RV108 (L-CH) 208 (R-CH) so that uppermost segment lights up.
- 7. Be sure that the segment one below the 0 VU (-4 dB) indication goes off when returning LINE OUT to 0.44 V (-5 dB). If necessary, readjust RV504.

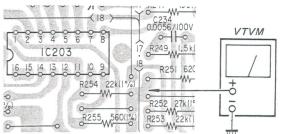
Adjustment Location:



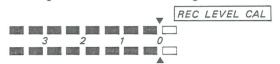
11. REC LEVEL CAL adjustment

CALIBRATION MODE switch: REC LEVEL

1. Adjust RV501 so that the level at the check point (R251), is 44 mV (-25 dB).



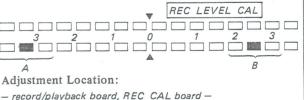
2. Install blank tape (CS-15) and set the unit to RECORD MONITORING mode by changing the MONITOR switch to TAPE position. Adjust RV106 (L-CH), 206 (R-CH) so that the segment over 0 dB indication goes out.

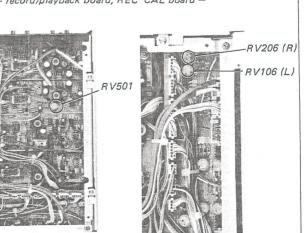


3. Be sure that indication of meter varies as follows when turning REC LEVEL CAL control from mechanical center to MIN or MAX.

The right segment should be lit up in the following range.

MINIMUM: A range MAXIMUM: B range





VTVM

Voltages ar	nd Waveforms at the Terminals	of IC801	
Terminal No.	Waveform or Voltage	Terminal No.	Wa
1	10 V 2.6 µsec	(12)	TIMER s
2	— 10 V 4 msec	(3)	rewind
3 6	0 V		just wh stop fro
	0.7 sec when S951 (POWER)	(4)	forward
7	is turned on:	(15)	fast for when m to stop
	1.3 sec when S951 (POWER) is turned off:	(6)	rewind forwar
8	- 10 V	17, 18	forwar record
	fast forward mode 11 V	(19)	rewind I
	12 msec forward mode	20, 21	DC 10
9	rewind mode	22	pa
District Control of the Control of t	5 msec	23	record
(0)		24)	fast fo
		25	forwa record
	when TIMER is turned off:	26	rewind
	TIMER switch: REC	27, 28	DC 10



Setting:

AL

d record

'E OUT (FIXED) 3 V (-6 dB)

08 (R-CH) at

hat the LINE

IN level is at

CH) so that

indication of

(-5 dB) and

segment one

V (9 dB) and

CH) so that

ow the 0 VU ien returning

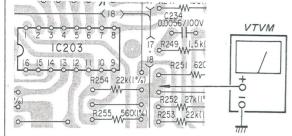
If necessary,

es off.

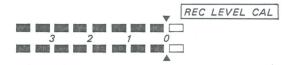
ge 31.)

CALIBRATION MODE switch: REC LEVEL

1. Adjust RV501 so that the level at the check point (R251), is 44 mV (-25 dB).



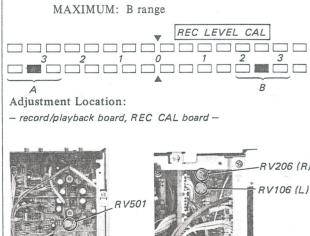
2. Install blank tape (CS-15) and set the unit to RECORD MONITORING mode by changing the MONITOR switch to TAPE position. Adjust RV106 (L-CH), 206 (R-CH) so that the segment over 0 dB indication goes out.



3. Be sure that indication of meter varies as follows when turning REC LEVEL CAL control from mechanical center to MIN or MAX.

The right segment should be lit up in the following range.

MINIMUM: A range



12. Bias Cal Adjustment

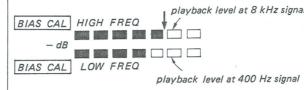
Setting:

CALIBRATION MODE switch: BIAS

Procedure:

1. MONITOR switch: TAPE

2. Install the blank tape (CS-15) and adjust RV502 so that the HIGH FREQ element one above the maximum LOW FREQ element lights up completely. (The next one up may blink).



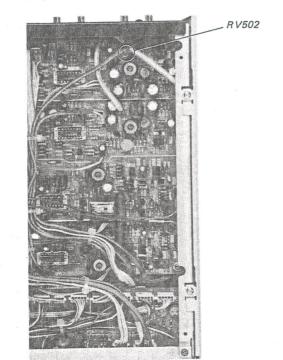
3. Make sure that elements of HIGH FREQUEN-CY (upper side) vary when turning BIAS CAL control from the mechanical center to MIN and to MAX.

Relative to level at BIAS CAL control center:

MIN: +6 element MAX: -6 element

Adjustment Location:

- record/playback board -



LINE OUT (FIXED) LINE IN 333 Hz. 0.25 V (-10 dB) 19 kHz, 0.25 V (-10 dB) Specification:

2. Feed a signal of 333 Hz, 0.25 V (-10 dB) into

3. Adjust the REC LEVEL control for -5 dB

4. Feed a signal of 19 kHz, 0.25 V (-10 dB) into

5. Adjust L103 (L-CH) and L203 (R-CH) for

Less than 14 mV (-35 dB)

Adjustment Locations:

13. MPX Filter Adjustment

the LINE IN jack.

the LINE IN jack.

MPX filter switch: ON

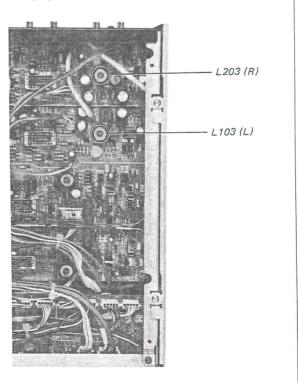
(0.44 V) on the VTVM.

minimum reading on VTVM.

attenuator 10 $k\Omega$

1. Mode: record

- record/playback board -



- 36 -

DE switch: BIAS

TAPE

at

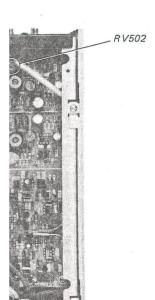
REQ element one above the REQ element lights up comme up may blink).



playback level at 400 Hz signal

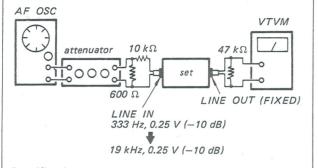
ents of HIGH FREQUENy when turning BIAS CAL mechanical center to MIN

BIAS CAL control center: at



13. MPX Filter Adjustment

- Mode: record
 MPX filter switch: ON
- 2. Feed a signal of 333 Hz, 0.25 V (-10 dB) into the LINE IN jack.
- 3. Adjust the REC LEVEL control for -5 dB (0.44 V) on the VTVM.
- 4. Feed a signal of 19 kHz, 0.25 V (-10 dB) into the LINE IN jack.
- Adjust L103 (L-CH) and L203 (R-CH) for minimum reading on VTVM.

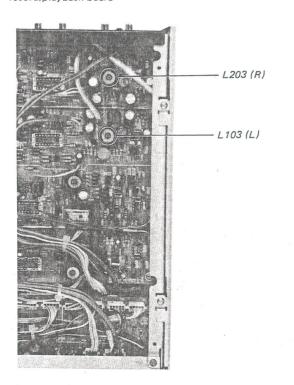


Specification:

Less than 14 mV (-35 dB)

Adjustment Locations:

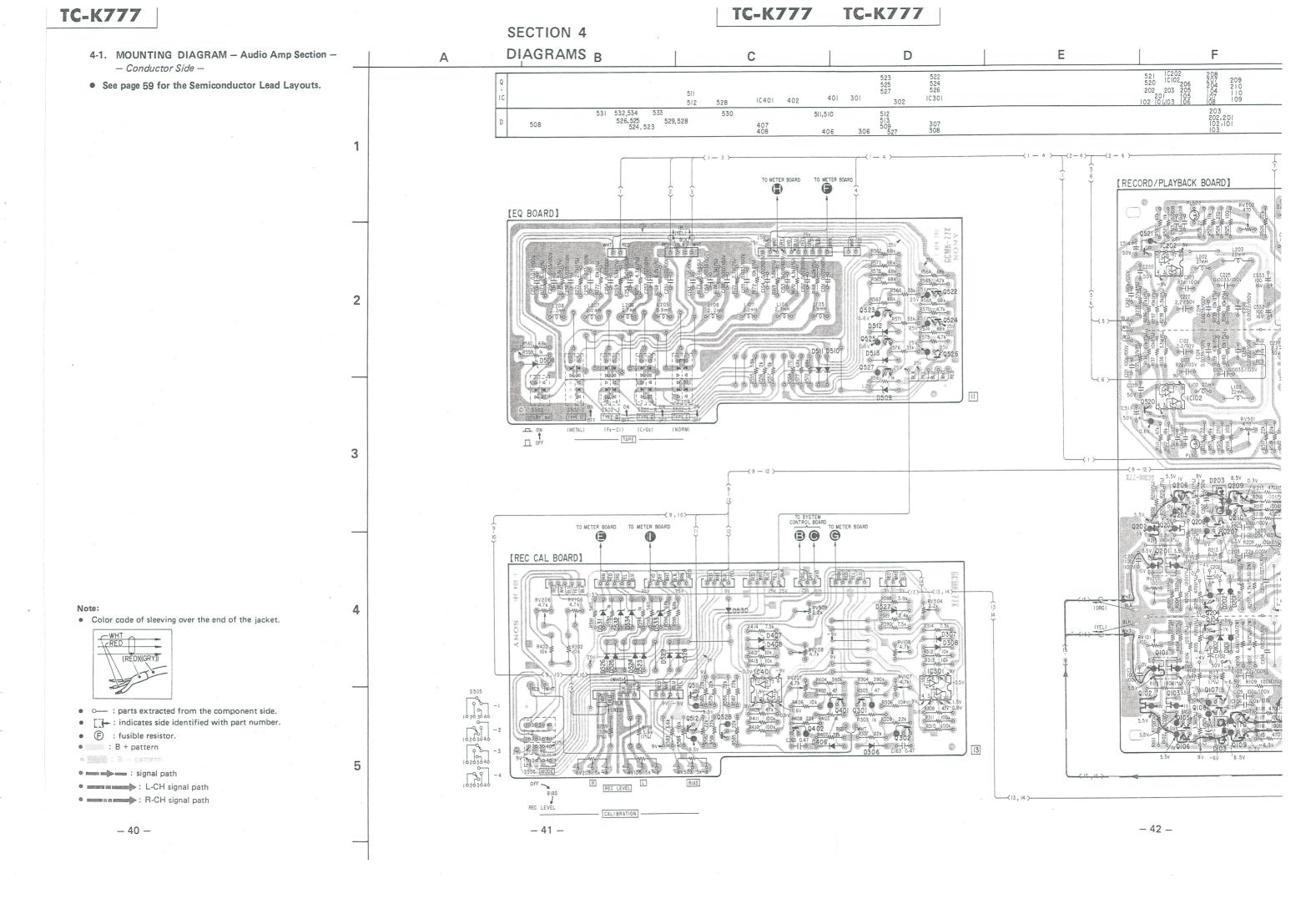
record/playback board -



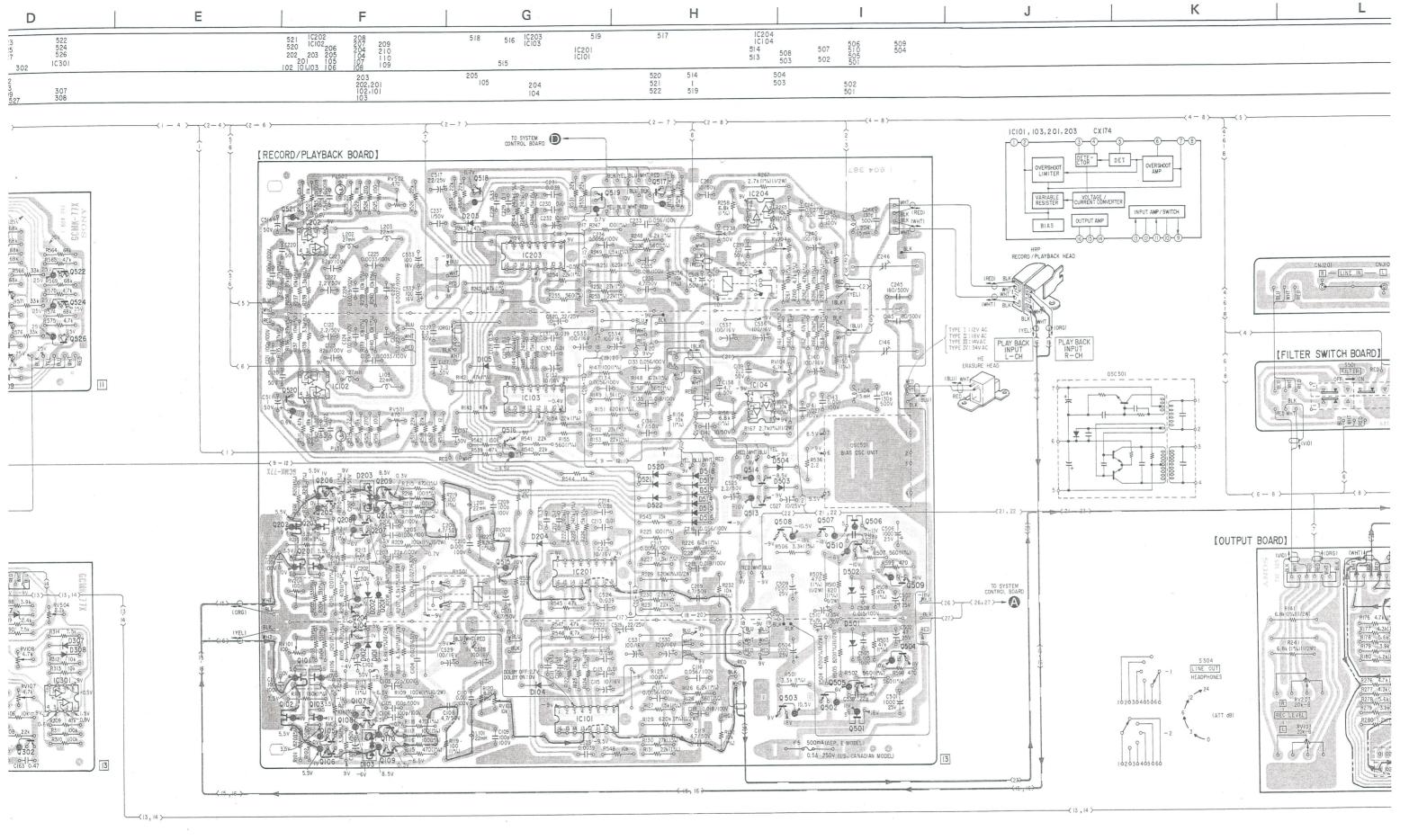
Voltages and Waveforms at the Terminals of IC801

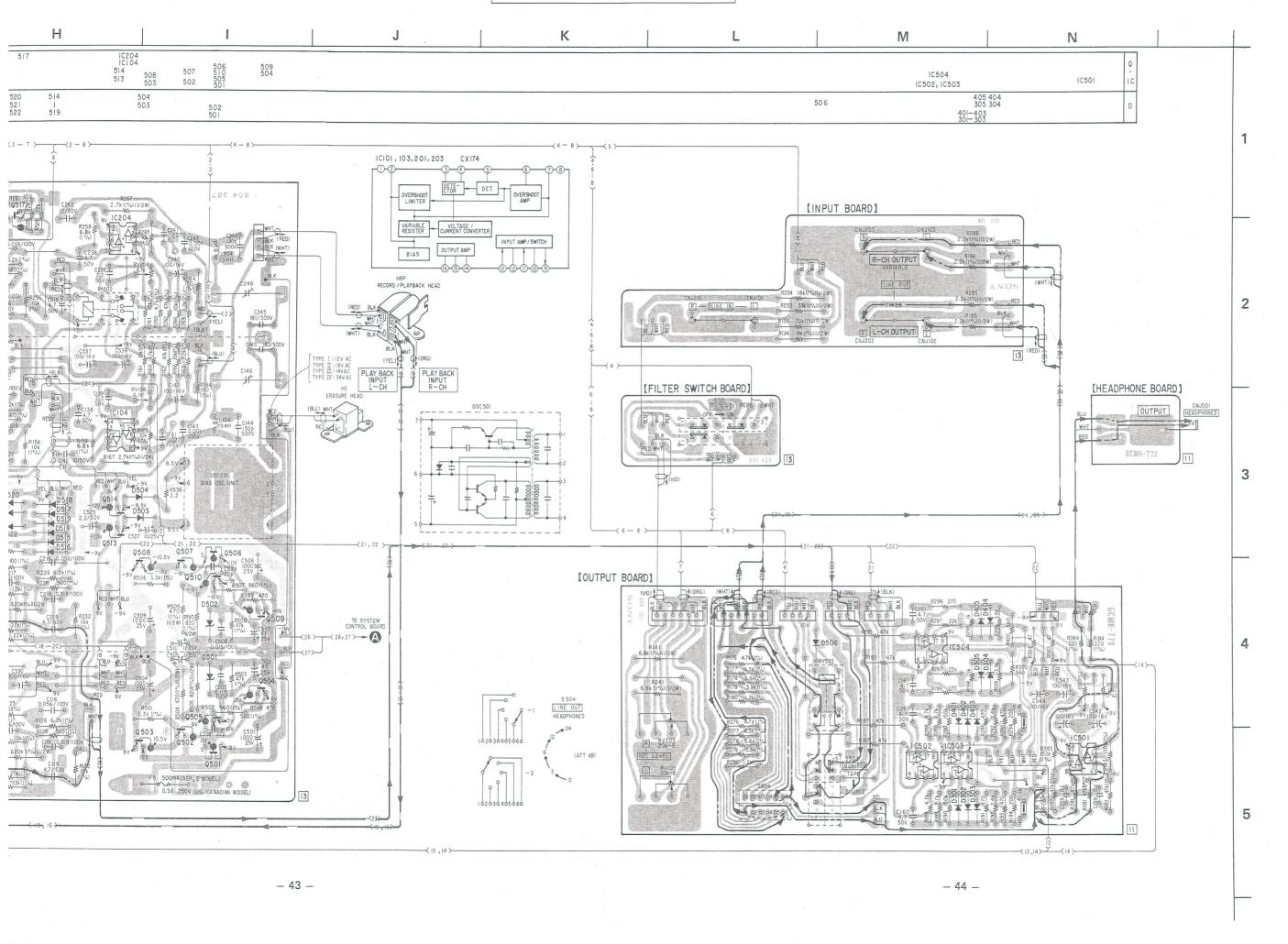
Terminal No.	Waveform or Voltage	Terminal No.	Waveform or Voltage	Terminal No.	Waveform or Voltage
	10 V	(2)	TIMER switch: REC	29	forward and DC 10 V record mode
2	2.6 μsec — 10 V	,	- 10 V rewind mode	30, 31	record mode: DC 10 V
	4 msec	(13)	10 V	32	DC 10 V
3 6	10 V		just when mode is changed to stop from fast forward	33	grounded
				34)	DC 10 V
7)	0.7 sec when S951 (POWER) is turned on:	(14)	forward or record mode	35)	
	1.3 sec	(15)	fast forward mode or just when mode is changed to stop from rewind	36	
	when \$951 (POWER) is turned off:	(16)	rewind and fast forward mode } DC 10 V		when REC button is pushe
8	- 10 V - 0 V	(17), (18)	forward and record mode DC 10 V rewind mode: DC 10 V	37)	— 10 V when fast forward
	fast forward mode 11 V 0 V	19	when forward/record button is turned on:	38	button is being pushe
	12 msec forward mode	20, 21	.DC 10 V		when forward button is pus
9	rewind mode	22	pause mode	39	- 10 V when REC button is push
	5 msec	23	record mode: DC 10 V	<u> </u>	
(10)		24	fast forward mode: DC 10 V	41)	grounded
		25)	forward and DC 10 V record mode		\wedge
	when TIMER is turned off:	26)	rewind mode: DC 10 V	42	0.28
	TIMER switch: REC	27, 28	DC 10 V		2.6 μsec

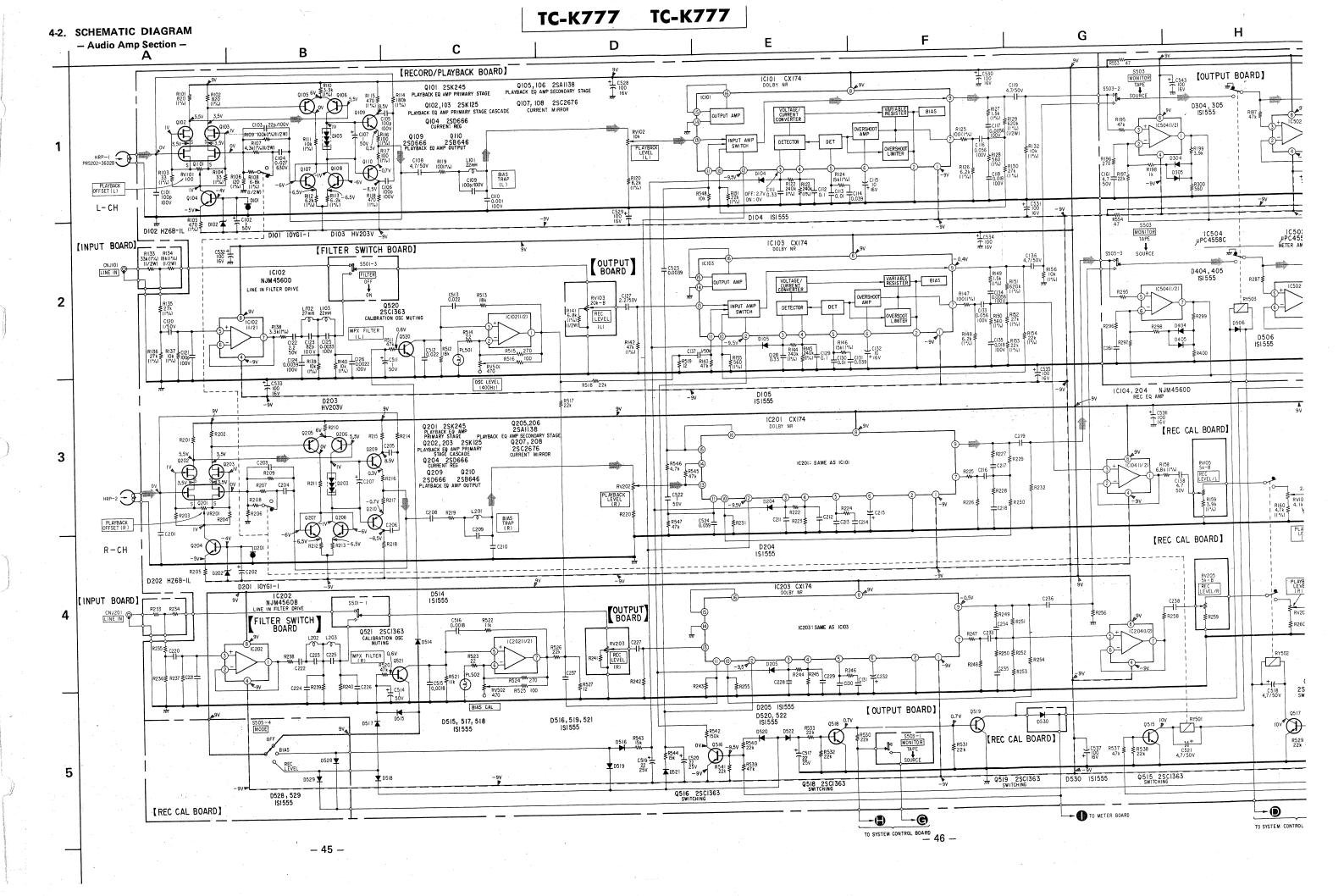
Note: Voltage levels are measured by the oscilloscope which has 10 M Ω probe. They may be different from those indicated in the schematic or mounting diagrams which are measured by a VOM.



777





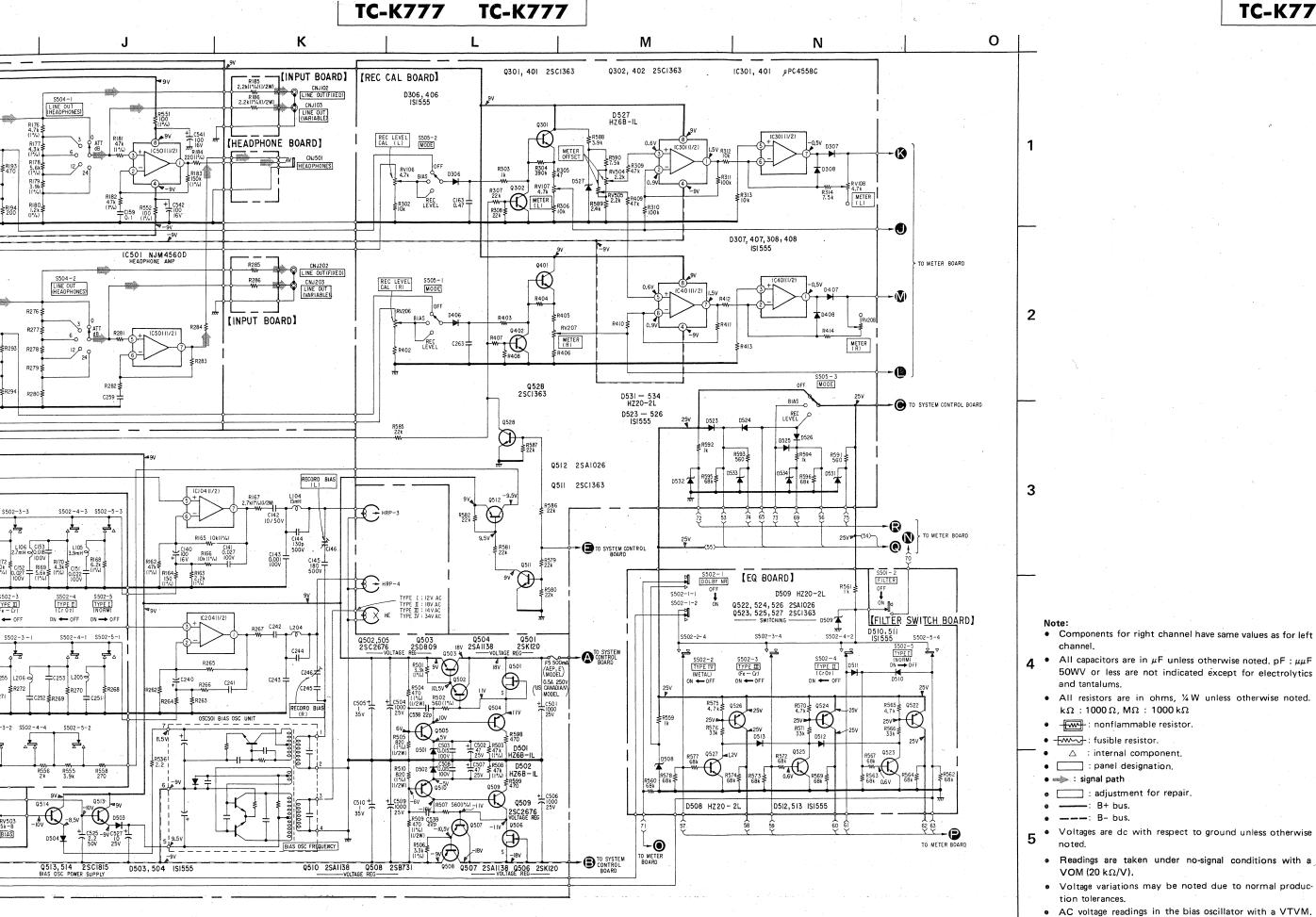


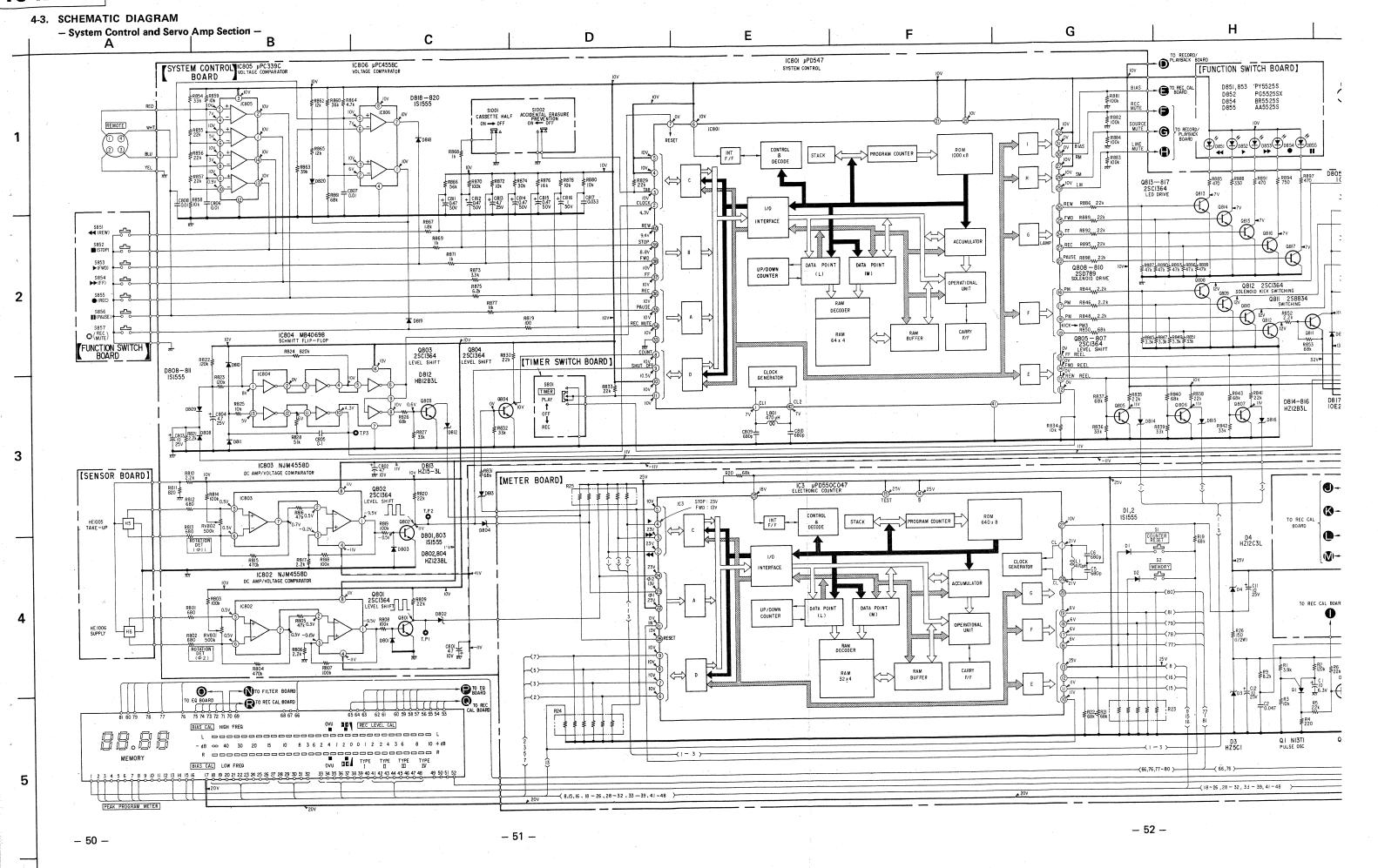
- 48 -

TO SYSTEM CONTROL BOARD

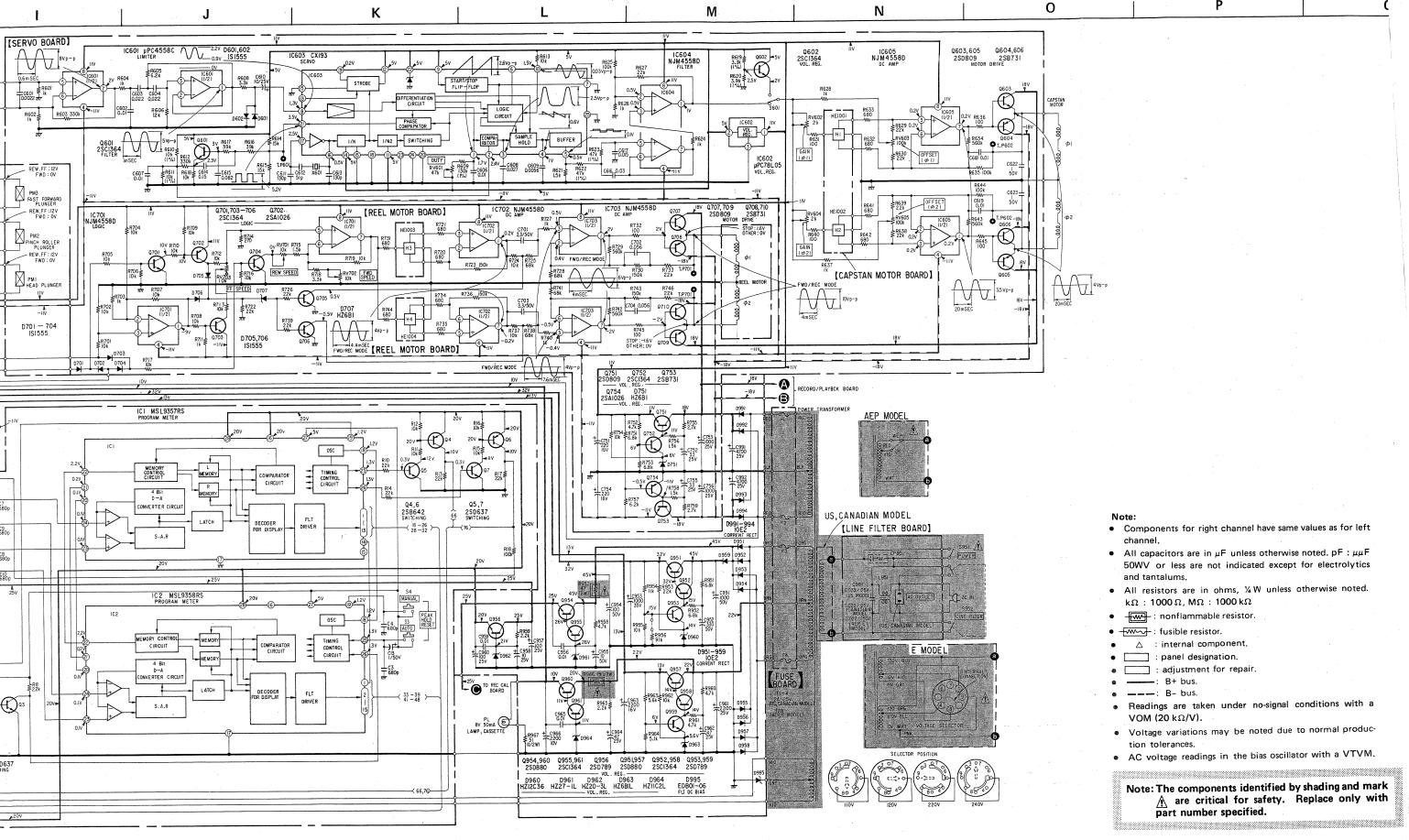
- 47 -

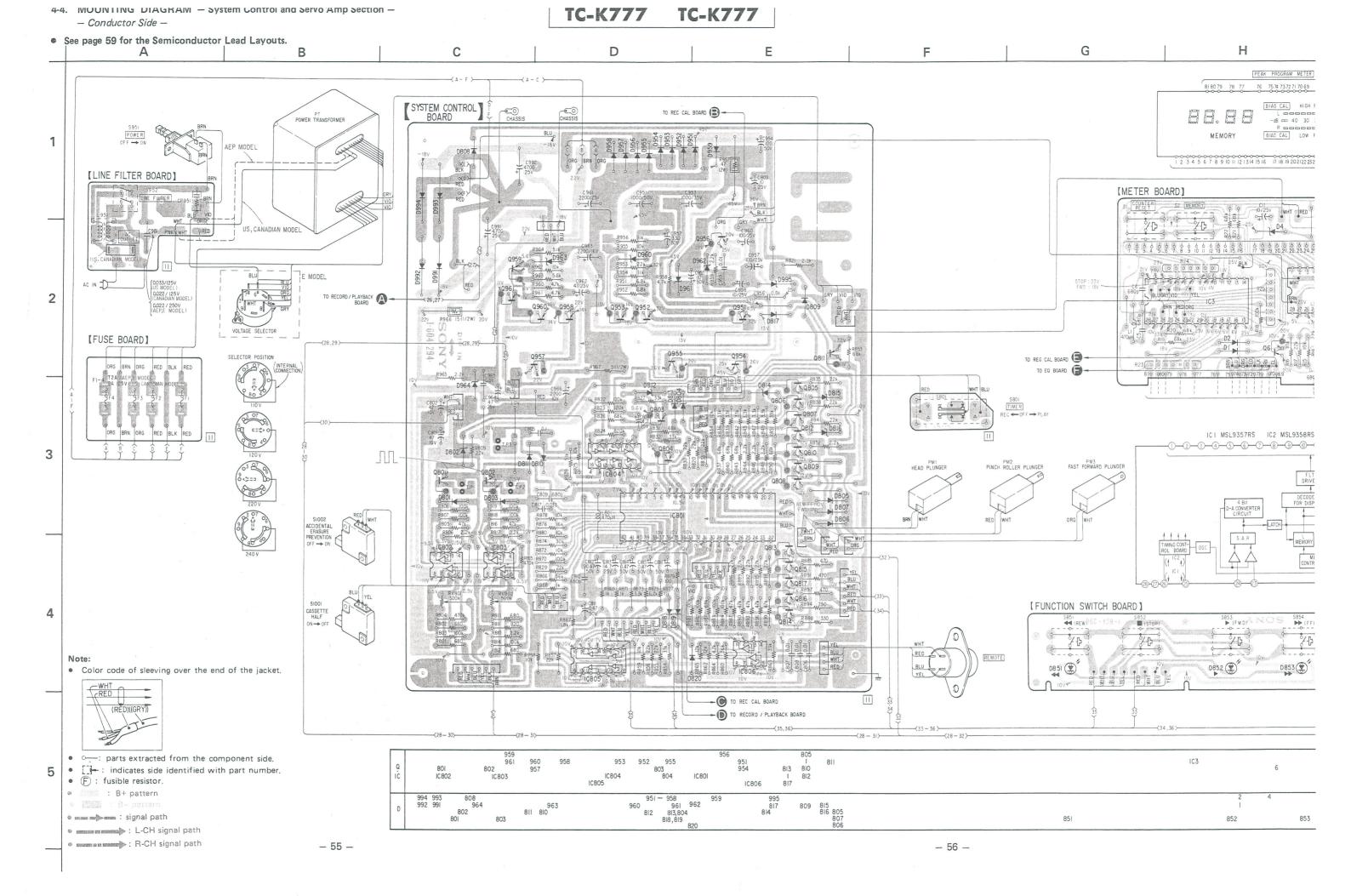
- 49 -

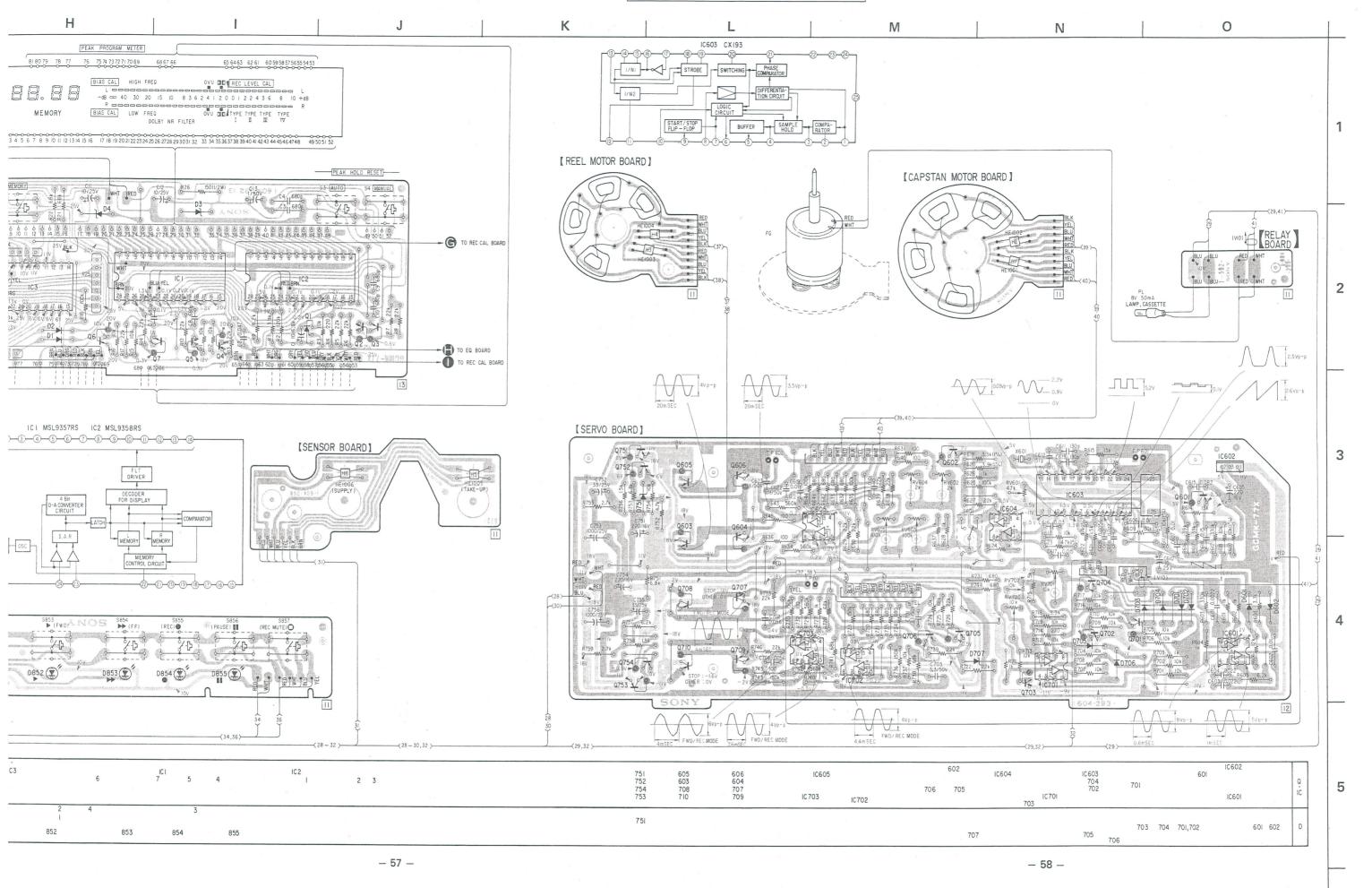




TC-K777 TC-K777



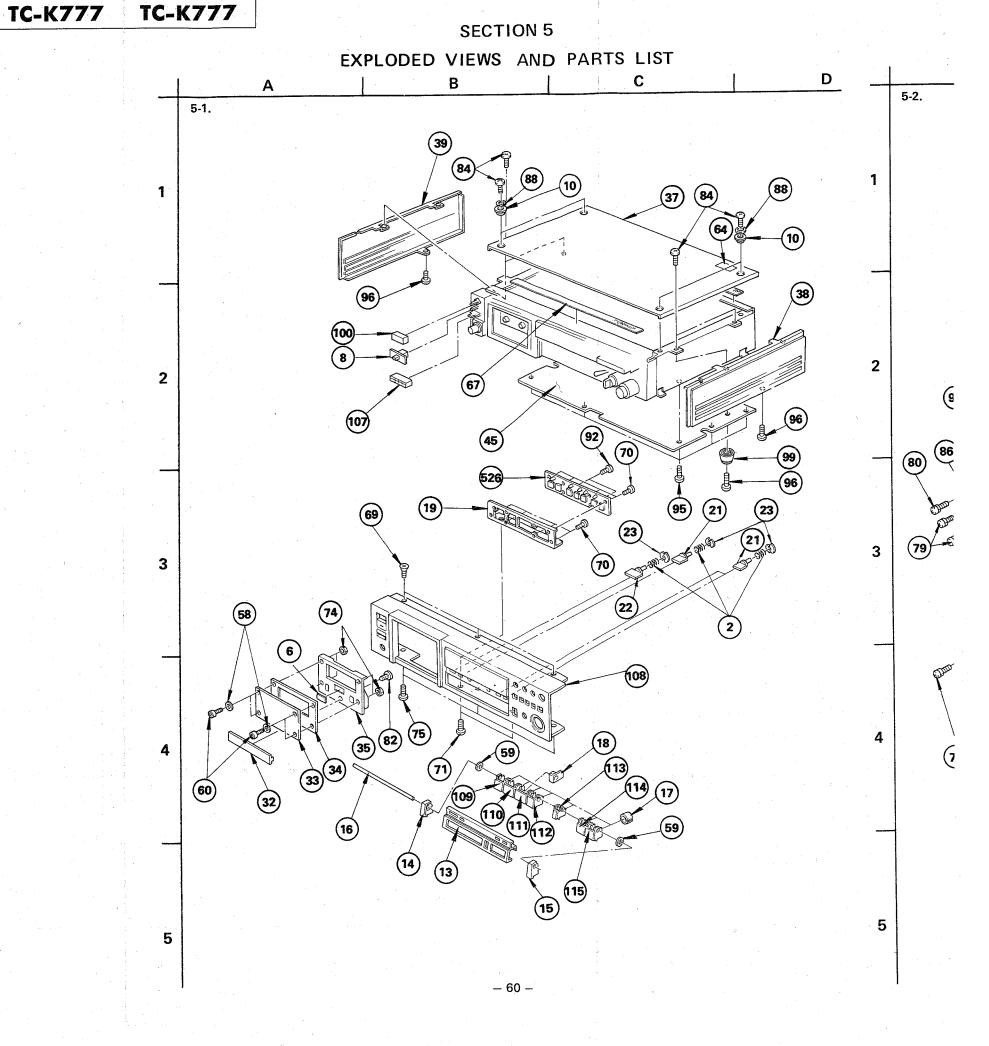




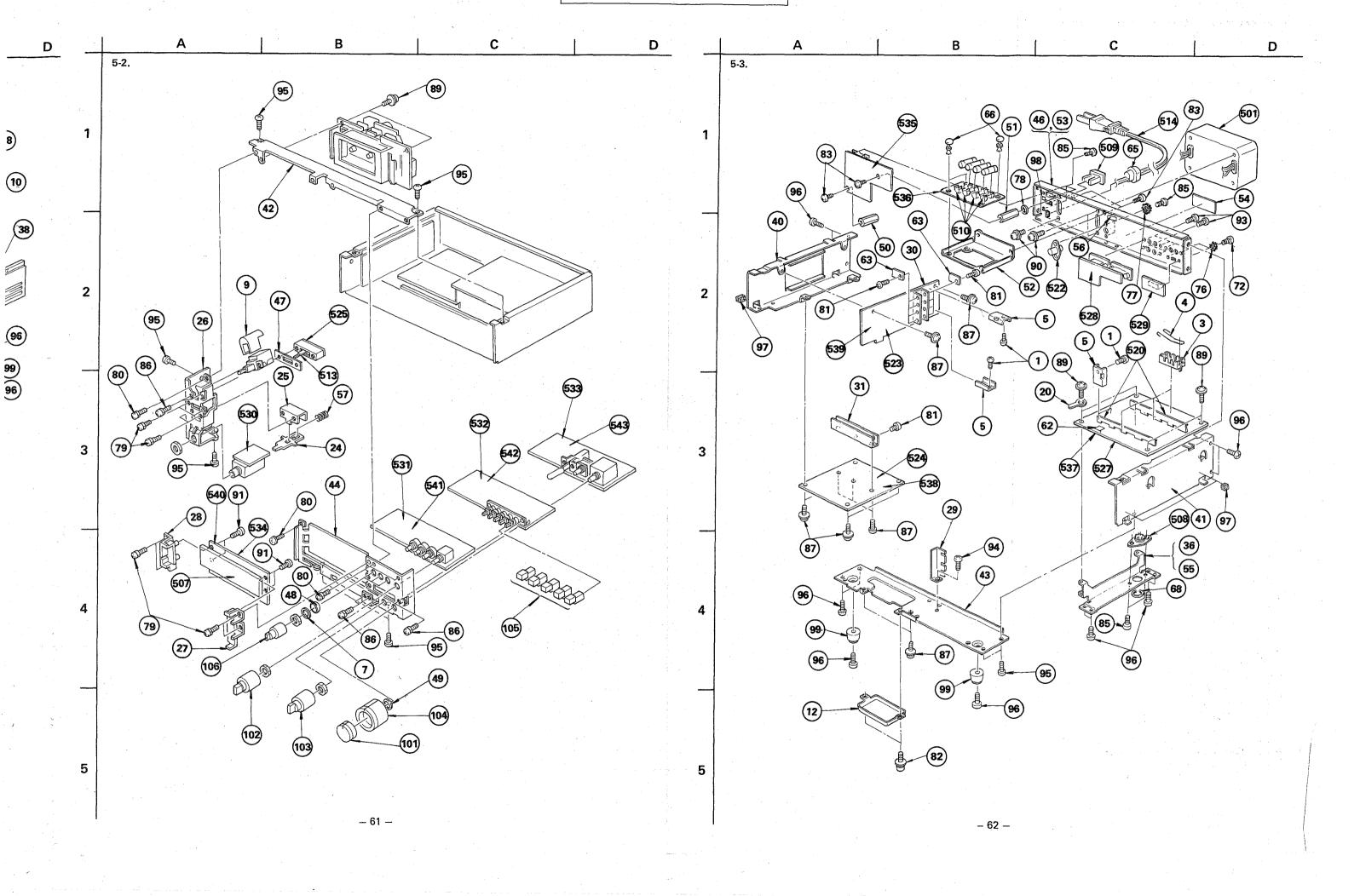
Semiconductor Lead Layouts 2SK125 MV-203V 2SA1027R CX-193 2SA1138 2SC2676 10E-2 1S1555 30DF2-FA EQB01-06 HZ6B1L HZ6B1L HZ11C2L HZ12C3L HZ15-3L HZ20-2L HZ20-3L HZ27-1L (Top view) 2SB646-A 2SC1364 MB84069B (Top view) 2SD637 μPC78L05A N13T1 2SB731 2SD809 gate OUT GND BR5525S AA5525S PY5535S PG5525SX letter side CX-174 NJM4560D MSL9357RS MSL9358RS μPC339C iong μPD550C047 2SK120-2 anode 2SD666-A

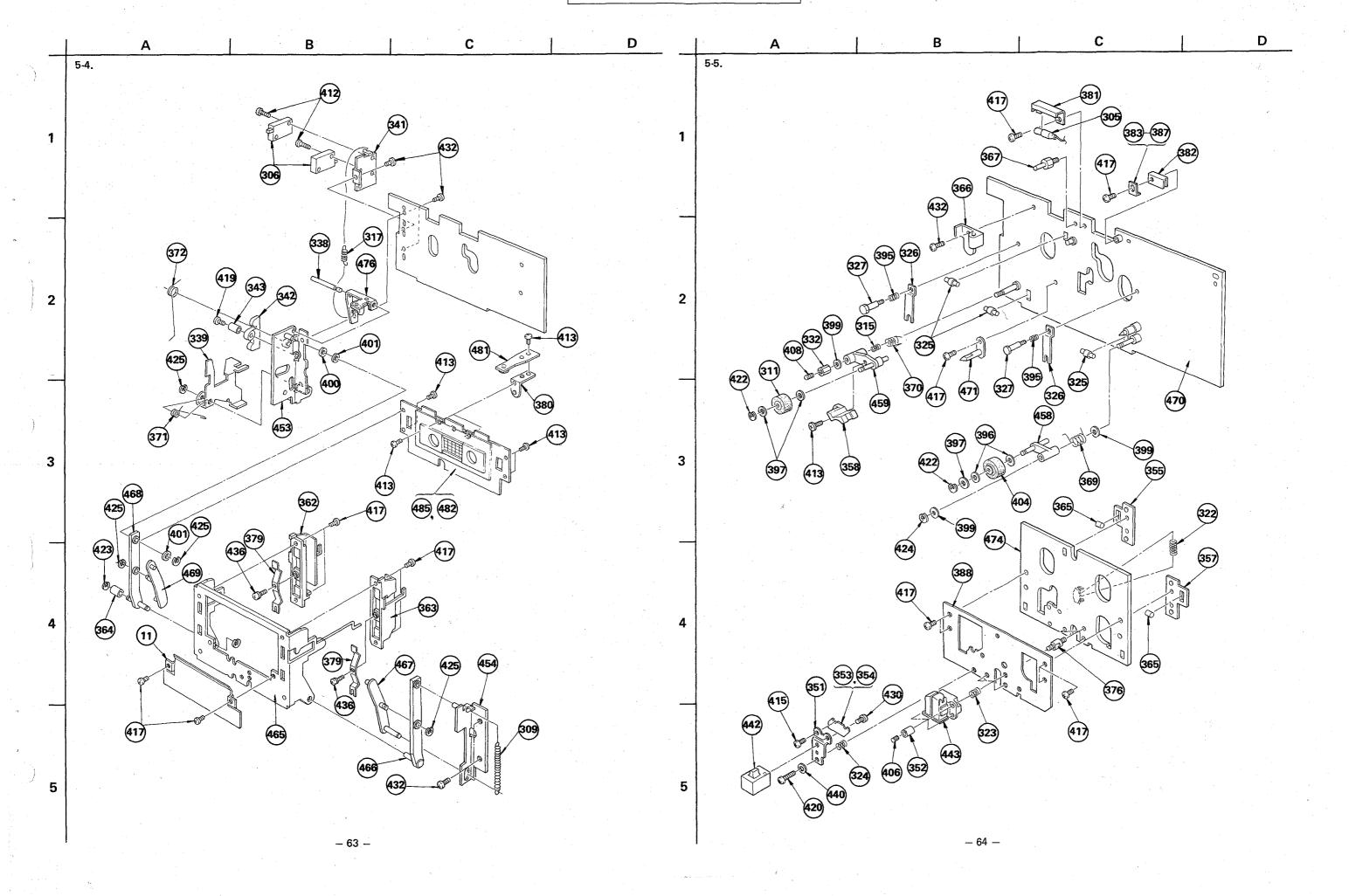
2SB642-P

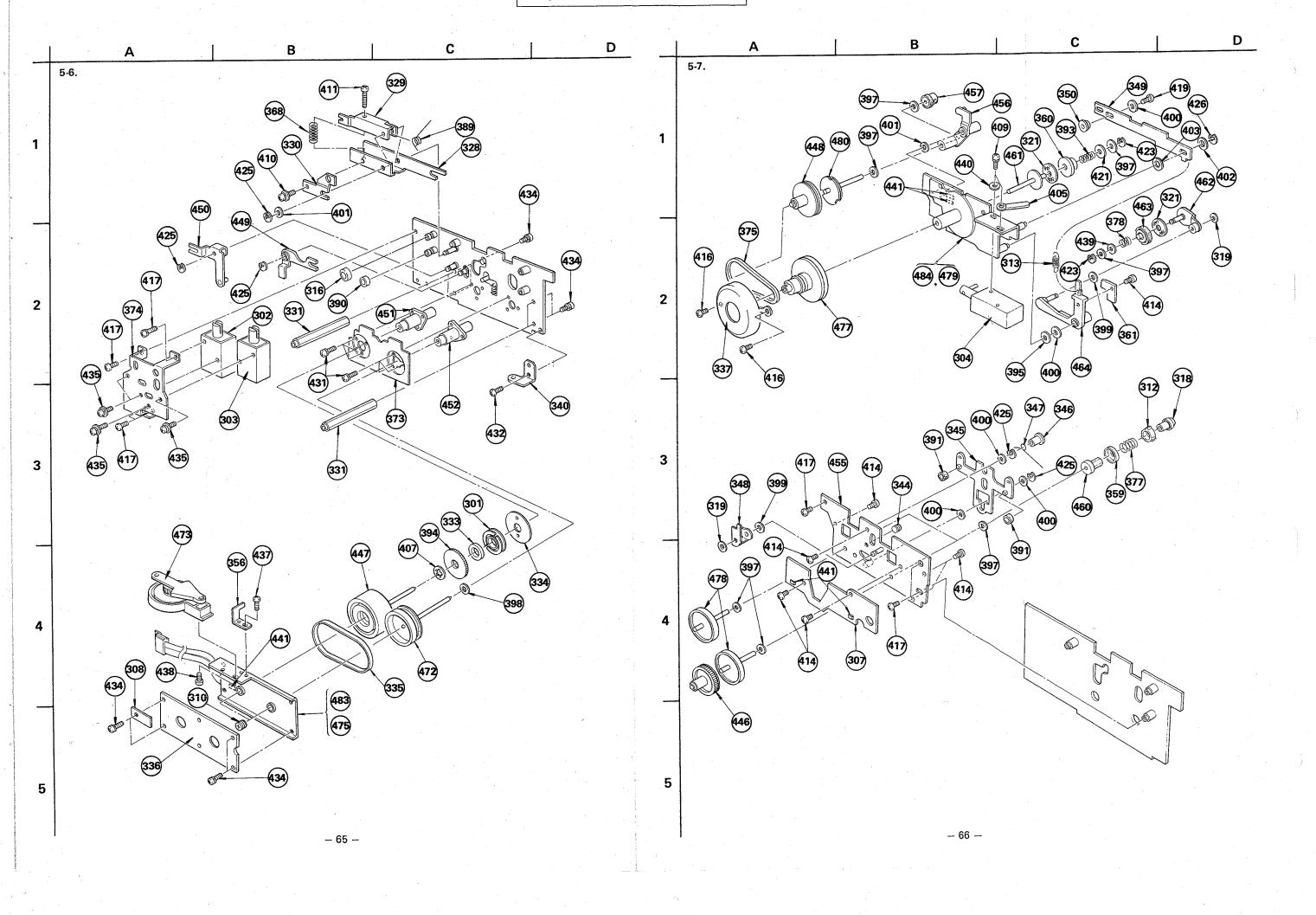
2SK245-1



(Top view)







GENERAL SECTION

No.	Part No.	Description
1 2 3 4 5	3-489-043-00 3-565-774-00 3-565-775-00	SCREW, TR SPRING, COMPRESSION HEAT SINK, IC SPRING HEAT SINK
6 7 8 9 10	\$;3-567-253-00 3-575-392-00 3-575-515-11 3-575-524-00 3-576-298-00	EMBLEM, 3 HEAD RING, PISTON KNOB, SLIDE SWITCH COVER, POWER SWITCH ESCUTCHEON
11 12 13 14 15	\$;3-576-930-00 3-577-602-00 3-577-603-00 3-577-604-00 3-577-605-00	PLATE, SHIELD, HEAD COVER, MECH DECK SASH, CONTROL BUTTON PLATE (L), SIDE, CONTROL BLOCK PLATE (R), SIDE, CONTROL BLOCK
17 18	4 ;3-577-606-00 3-577-607-00 3-577-615-00 4 ;3-577-624-00 3-701-822-01	SHAFT SPACER, CONTROL BUTTON GUIDE, SHAFT, CONTROL BUTTON BRACKET, CONTROL BLOCK STOPPER, LEAD
	3-577-640-00	PUSH BUTTON (A) PUSH BUTTON (B) SPACER, PUSH BUTTON SLIDER, EJECT GUIDE, EJECT
27 28 29	\$\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	CHASSIS (B), AMPLIFIER BRACKET (R), FL TUBE BRACKET (L), FL TUBE CLAMP, PC BOARD HEAT SINK, SERVO
31 32 33 34 31	3 3-577-656-00 4 3-577-657-00	HEAT SINK, SYSTEM CONTROL SASH, CASSETTE WINDOW WINDOW, CASSETTE PLATE, ORNAMENTAL FRAME, CASSETTE WINDOW
3 3	6 \$;3-577-659-00 3-577-660-01 8 3-577-662-00 9 3-577-663-00 0 \$;3-577-664-00	PLATE, SIDE, ORNAMENTAL, RIGHT PLATE, SIDE, ORNAMENTAL, LEFT
4	1 4; 3-577-665-00 2 4; 3-577-666-00 3 4; 3-577-668-00 4 4; 3-577-668-00	REINFORCEMENT, UPPER REINFORCEMENT, LOWER CHASSIS (A), AMPLIFIER
4	5 4; 3-577-669-00 5 4; 3-577-688-00	(US,Canadian,AEP)PLATE, BOTTOM (E)PLATE, BOTTOM

GENERAL SECTION

		dentitie o	
	No.	Part No.	Description
	48 ♦ :	3-577-674-00 3-577-675-00	(US,Canadian)PLATE, JACK SPACER, SWITCH SPACER, CONTROL, REC CAL SPACER, REC KNOB SUPPORT (A), HEXAGON
	51 • 52 •	;3-577-678-00 ;3-577-679-00	SUPPORT (B), HEXAGON BRACKET, FUSE
	53 53	3-577-680-01 3-577-680-00	(AEP)PLATE, JACK (E)PLATE, JACK
-	54 54 54	3-577-682-00 3-577-683-00 3-577-685-00	(E)LABEL, MODEL NUMBER (AEP.)LABEL, MODEL NUMBER (US,Canadian)LABEL, MODEL NUMBER
	55 ቆ 56	;3-577-687-00 3-703-044-26	(E)PARTITION, INNER (US,Canadian)CAUTION LABEL, FUSE
	59 60	3-583-507-00 3-701-438-11 3-701-438-21 3-701-584-01 ;3-701-748-00	SPRING WASHER, 2.5 WASHER BOLT WITH HEXAGONAL HOLE, 2.6X8 CLAMP
	62 62	;3-701-946-07 ;3-701-986-13	(US,Canadian)LABEL, FUSE (AEP,E)LABEL, FUSE
	63 64 65	3-703-037-00 3-703-079-21 3-703-244-00	(US)LABEL, CAUTION (BACK)
	66 67 68 69 70	05	SPACER (E)PAPER, VOLTAGE INDICATING SCREW +K 2.6X5
	71 72 73	7-621-770-87 7-621-773-95	5 SCREW +B 2.6X6
	74 75	7-622-327-01 7-621-775-25	N 2.6 TYPE 3
	76 77 78 79 80	7-623-421-0 7-623-422-0 7-623-310-0 7-628-254-1 7-628-254-2	7 LW 3, TYPE B 7 WASHER, 4DIA 5 SCREW +PS 2.6X6
	81 82 83 84 85	7-682-547-0	9 SCREW +B 3X4 1 SCREW +B 3X6 4 SCREW +B 3X6

NOTE:

- Items with no part number and no des-cription are not stocked because they are seldom required for routine service.
- Items marked " " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- · Due to standardization, parts with part numbers $(\Delta - \Delta\Delta\Delta - \Delta\Delta\Delta - XX)$ or $\Delta - \Delta\Delta\Delta\Delta - \Delta\Delta\Delta - X)$ may be different from those used in the

CAPACITORS:

- CARACITURS: All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers. MF: μF , PF: $\mu \mu F$.
- RESISTORS
- RESISIONS
 All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- · F : nonflammable

COILS

MMH : mH, UH : μH

OFMEDAL CECTION

		GENERAL S	SECTION		MECHANISI	1 SECTION
	lo.	Part No.	Description	No.	Part No.	Description
	86	7-682-647-01 7-682-947-01 7-688-003-11	SCREW +PS 3X6 SCREW +PSW 3X6 WASHER, 3(MIDDLE)N;-N4 SCREW +PSW 3X8 SCREW +PSW 4X8	301 302 303 304 305	1-422-032-00 1-454-270-00 1-454-271-00 1-454-272-00 1-518-306-00	COIL SOLENOID, PLUNGER SOLENOID, PLUNGER SOLENOID, PLUNGER LAMP, PILOT
	91 92 93 94 95	7-685-133-11 7-685-534-21 7-685-545-29 7-685-870-01 7-685-871-01	SCREW +BTP 2.6X8 YPE2 SLIT SCREW +BTP 3X6 TYPE2 SLIT SCREW +BVTT 3X5 (S) SCREW +BVTT 3X6 (S)	308 309 310	1-552-268-00 1-604-268-00 1-604-269-00 3-140-235-XX 3-489-073-21	SWITCH, SLIDE PC BOARD, SENSOR PC BOARD, EXTENSION SPRING, TENSION SCREW, THRUST
	96 97 98 99 100	7-685-872-01 9-911-841-XX 9-911-863-XX X-3556-910-0 X-3575-502-0	SCREW +BVTT 3X8 (S) CUSHION (AEP,E)SHEET, INSULATING FOOT ASSY, MF KNOB ASSY, POWER	311 312 313 314 315	3-531-760-00 3-534-274-XX	PINCH ROLLER CLAW, REEL SPINDLE SPRING, TENSION SPRING, COMPRESSION
	101 102 103 104 105	X-3577-602-0 X-3577-603-0 X-3577-604-0 X-3577-605-0 X-3577-606-0	SCREW +BVTT 3X8 (S) CUSHION (AEP,E)SHEET, INSULATING FOOT ASSY, MF KNOB ASSY, POWER KNOB (L) ASSY, REC KNOB ASSY, MODE KNOB ASSY, LINE OUT KNOB (R) ASSY, REC KNOB ASSY, SQUARE KNOB ASSY, SQUARE KNOB ASSY, EJECT PANEL ASSY KNOB ASSY, REW KNOB ASSY, STOP KNOB ASSY, FWD	316 317 318 319 320	3-558-482-00 3-558-708-21	WASHER, STOPPER
	106 107 108 109 110	X-3577-607-0 X-3577-608-0 X-3577-609-0 X-3577-610-1 X-3577-611-1	KNOB ASSY, REC CAL KNOB ASSY, EJECT PANEL ASSY KNOB ASSY, REW KNOB ASSY, STOP	321 322 323 324 325	3-564-027-01 3-564-035-00 3-564-121-00 3-573-470-00 3-576-801-00	SPRING, COMPRESSION SPRING, COMPRESSION
1	111 112 113 114 115	X-3577-613-1 X-3577-614-1 X-3577-615-1	KNOB ASSY, FWD KNOB ASSY, FF KNOB ASSY, REC KNOB ASSY, PAUSE KNOB ASSY, REC MUTE	329	4 ;3-576-802-00 3-576-803-00 4 ;3-576-804-00 5 ;3-576-805-00 6 ;3-576-806-00	SHAFT, RETAINER, RULLER LEVER (A), HEAD UP LEVER (B), HEAD UP
	No.	ACCESSORY Part No.		332	3-576-809-00 4;3-576-810-00	ADJUSTOR, PINCH RULLER MAGNET, FG PLATE, RETURN CIRCUIT
	131 132 133 134 135	1-551-734-11 3-577-672-00	CORD, CONNECTION (RK- 74A) CUSHION, FRONT CUSHION, REAR INDIVIDUAL CARTON	337	3-576-815-00 3-3-576-816-00 3-3-576-819-00 3-3-576-820-00 3-3-576-821-00	CASE, SHIELD, RM SHAFT, LEVER, GB
	136 136 136 136 136	3-783-485-1 3-783-485-2 3-783-485-3 3-783-485-4 3-783-485-5	l (US)MANUAL, INSTRUCTION l (Canadian)MANUAL, INSTRUCTION l (AEP)MANUAL, INSTRUCTION	342 343 344		O ARM, E O COLLAR O SCREW, ADJUSTMENT
	137 138	3-793-481-1 3-793-828-1 4-809-251-0	1 QUESTIONNAIRE			

MECHANISM SECTION

138 139 140

Items with no part number and no description are not stocked because they are seldom required for routine service.

4-809-251-00 BAG, POLYETHYLENE X-3701-105-0 ROD ASSY, CLEANING, HEAD

Items marked " ♣ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Due to standardization, parts with part numbers (Δ - $\Delta\Delta\Delta$ - $\Delta\Delta\Delta$ - ΔX) or Δ - $\Delta\Delta\Delta\Delta$ - $\Delta\Delta\Delta$ -X) may be different from those used in the set.

CAPACITORS: All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers. MF: μF , PF: $\mu \mu F$.

RESISTORS KESISIUKS
All resistors are in ohms. Common
1/4W, 1/8W and 1/16W carbon resistors
are omitted. Refer to the following
lists for their part numbers.

· F : nonflammable

COILS

· MMH : mH, UH : μH

MECHANISM SECTION

GENERAL SECTION

10.	Part No.	Description
10.		
.86 .87 .88 .89	7-682-647-01 7-682-947-01 7-688-003-11 7-682-948-01 7-682-961-01	SCREW +PS 3X6 SCREW +PSW 3X6 WASHER, 3(MIDDLE)N;-N4 SCREW +PSW 3X8 SCREW +PSW 4X8
91 92 93 94 95	7-685-133-11 7-685-534-21 7-685-545-29 7-685-870-01 7-685-871-01	SCREW +P 2.6X6 TYPE2 SLIT SCREW +BTP 2.6X8 TYPE2 SLIT SCREW +BTP 3X6 TYPE2 SLIT SCREW +BVTT 3X5 (S) SCREW +BVTT 3X6 (S)
96 97 98 99 00	7-685-872-01 9-911-841-XX 9-911-863-XX X-3556-910-0 X-3575-502-0	SCREW +BVTT 3X8 (S) CUSHION (AEP,E)SHEET, INSULATING FOOT ASSY, MF KNOB ASSY, POWER
01 02 03 04 05	X-3577-602-0 X-3577-603-0 X-3577-604-0 X-3577-605-0 X-3577-606-0	KNOB (L) ASSY, REC KNOB ASSY, MODE KNOB ASSY, LINE OUT KNOB (R) ASSY, REC KNOB ASSY, SQUARE
06 07 08 09 10	X-3577-607-0 X-3577-608-0 X-3577-609-0 X-3577-610-1 X-3577-611-1	KNOB ASSY, REC CAL KNOB ASSY, EJECT PANEL ASSY KNOB ASSY, REW KNOB ASSY, STOP
11 12 13 14 15	X-3577-612-1 X-3577-613-1 X-3577-614-1 X-3577-615-1 X-3577-616-1	KNOB ASSY, FWD KNOB ASSY, FF KNOB ASSY, REC KNOB ASSY, PAUSE KNOB ASSY, REC MUTE
÷	ACCESSORY &	PACKING MATERIAL

-	ACCESSORY 8	PACKING MATERIAL
<u>0.</u>	Part No.	Description
31 32 33 34 35	1-551-734-11 3-577-672-00 3-577-673-00 3-577-686-00 3-701-630-00	CORD, CONNECTION (RK- 74A) CUSHION, FRONT CUSHION, REAR INDIVIDUAL CARTON BAG, POLYETHYLENE
36 36 36 36 36	3-783-485-11 3-783-485-21 3-783-485-31 3-783-485-41 3-783-485-51	(AEP,E)MANUAL, INSTRUCTION (US)MANUAL, INSTRUCTION (Canadian)MANUAL, INSTRUCTION (AEP)MANUAL, INSTRUCTION (Canadian)MANUAL, INSTRUCTION
37 38 39 40	3-793-481-13 3-793-828-11 4-809-251-00 X-3701-105-0	INSTRUCTION QUESTIONNAIRE BAG, POLYETHYLENE ROD ASSY, CLEANING, HEAD

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Due to standardization, parts with part numbers $(\Delta-\Delta\Delta\Delta-\Delta\Delta\Delta-XX)$ or $\Delta-\Delta\Delta\Delta\Delta-\Delta\Delta\Delta-XX)$ nay be different from those used in the et.

CAPACITORS: All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers. MF: μF , PF: $\mu \mu F$.

RESISTORS

All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

· F : nonflammable

COILS

· MMH : mH, UH : μH

MECHANISM SECTION

No.	Part No.	Description
301 302 303 304 305	1-422-032-00 1-454-270-00 1-454-271-00 1-454-272-00 1-518-306-00	COIL SOLENOID, PLUNGER SOLENOID, PLUNGER SOLENOID, PLUNGER LAMP, PILOT
307	1-552-268-00 1:1-604-268-00 1:1-604-269-00 3-140-235-XX 3-489-073-21	SWITCH, SLIDE PC BOARD, SENSOR PC BOARD, EXTENSION SPRING, TENSION SCREW, THRUST
311 312 313 314 315	3-491-020-00 3-531-760-00 3-534-274-XX	PINCH ROLLER CLAW, REEL SPINDLE SPRING, TENSION SPRING, COMPRESSION
316 317 318 319 320	3-541-231-00 3-558-482-00 3-558-708-21	SPRING, TENSION CAP, REEL WASHER, STOPPER
321 322 323 324 325	3-564-027-01 3-564-035-00 3-564-121-00 3-573-470-00 3-576-801-00	FELT, LIMITER SPRING, COMPRESSION SPRING, COMPRESSION SPRING, COMPRESSION ROLLER, BASE, HEAD
327 328 329	;3-576-802-00 3-576-803-00 ;3-576-804-00 ;3-576-805-00 ;3-576-806-00	RETAINER, ROLLER SHAFT, RETAINER, ROLLER LEVER (A), HEAD UP LEVER (B), HEAD UP DISK, ARM, TAKE-UP
332 333 334	3-576-807-00 3-576-808-00 3-576-809-00 3-576-810-00 3-576-812-00	SUPPORT (B) ADJUSTOR, PINCH ROLLER MAGNET, FG PLATE, RETURN CIRCUIT BELT, CAPSTAN
337 338 339	;3-576-815-00 ;3-576-816-00 ;3-576-819-00 ;3-576-820-00 ;3-576-821-00	REINFORCEMENT, BASE CASE, SHIELD, RM SHAFT, LEVER, GB ARM, LOCK BRACKET, CHASSIS, MECHANISM
342 ♣ 343 344	;3-576-822-00 ;3-576-823-00 3-576-824-00 3-576-826-00 ;3-576-827-00	HOLDER (A), SE ARM, E COLLAR SCREW, ADJUSTMENT PLATE, BRAKE

MECHANISM SECTION

		TILOTO UTT	5/1 SE0/1010
No. Part No.	Description	No. Part No.	Description
346 ♦;3-576-828-00 347 3-576-829-00 348 ♦;3-576-830-00 349 ♦;3-576-831-00 350 ♦;3-576-832-00	SPRING ARM, BRAKE LEVER, SELECT, MODE	391 3-576-958-00 392 3:3-576-959-00 393 3-576-960-00 394 3-576-961-00 395 3-701-441-01	SHOE, BRAKE RETAINER, TU PULLEY SPRING, COMPRESSION PLATE, FG WASHER, 4DIA(TO.13)
351 •;3-576-833-01 352 3-576-834-00 353 3-576-835-01 354 3-576-835-11 355 •;3-576-836-00	NUT, LOCK SEAM, ADJUSTMENT, ERASE HEAD SEAM, ADJUSTMENT, ERASE HEAD	396 3-701-437-01 397 3-701-437-11 398 3-701-438-21 399 3-701-439-21 400 3-701-441-11	WASHER WASHER (T0.25) WASHER (T0.5) WASHER WASHER WASHER (T0.25)
356 \(\) ;3-576-825-00 357 \(\) ;3-576-838-00 358 3-576-839-00 359 3-576-840-00 3-576-841-00	RETAINER (R), ROLLER GUIDE, TAPE RING, TABLE, REEL	401	WASHER (TO.25) WASHER (TO.5) WASHER, 5 (TO.5) PINCH ROLLER RETAINER, LEAD
361 4; 3-576-842-00 362 3-576-843-00 363 3-576-844-00 364 3-576-845-00 365 3-576-909-00	GUIDE (Ĺ), HOLDER GUIDE (R), HOLDER ROLLER	406	SET-SCT, HEX. 2X3 FLAT POINT RING SET-SCT, HEX. 2.6X4 +PSW, 2.6X4 +PSW, 2.6X5
366 \(\) ;3-576-910-00 367 3-576-912-00 369 3-576-913-00 370 3-576-914-00	PIN (A), POSITIONING, HALF SPRING, COMPRESSION SPRING (T)	411 7-621-775-75 412 7-621-770-96 413 7-621-772-10 414 7-621-772-15 415 7-621-772-18	SCREW +B 2.6X14 SCREW +B 2X8 SCREW +B 2X4 SCREW +B 2X4 SCREW +B 2X4
371 3-576-915-00 372 3-576-916-00 373 \$;3-576-917-00 374 \$;3-576-918-00 375 3-576-919-00	SPRING PLATE, SHIELD BRACKET (B), CHASSIS, MECH	416 7-621-773-93 417 7-621-775-10 418 419 7-621-775-25 420 7-621-775-40	SCREW +B 2.6X3 SCREW +B 2.6X4 SCREW +B 2.6X5 SCREW +B 2.6X8
376 3-576-920-00 377 3-576-921-00 378 3-576-922-00 379 3-576-924-00 380 3-576-928-00	SPRING, COMPRESSION SPRING, COMPRESSION SPRING	421 7-623-105-12 422 7-624-101-04 423 7-624-102-04 424 7-624-105-04 425 7-624-106-04	W 2,MIDDLE STOP RING 1.2 (E TYPE) STOP RING 1.5, TYPE -E STOP RING 2.3, TYPE -E STOP RING 3.0, TYPE -E
383 3-576-950-01 384 3-576-950-11	STOPPER, CHASSIS, HEAD SEAM, STOPPER (TO.1)		STOP RING 4.0, TYPE -E RING, RETAINING E-2.5 SCREW, PRECISION +P 1.7X3
	SPRING	431 7-628-254-15 432 7-682-546-09 433 434 7-682-647-01 435 7-682-946-01	SCREW +PS 2.6X6 SCREW +B 3X5 SCREW +PS 3X6 SCREW +PSW 3X5

NOTE:
Items with no part number and no description are not stocked because they are seldom required for routine service.

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Due to standardization, parts with part numbers (Δ - Δ Δ Δ - Δ Δ Δ - Δ Δ or Δ - Δ Δ Δ - Δ Δ - Δ) may be different from those used in the set.

CAPACITORS:

All capacitors are in uF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF: uF, PF: uuF.

RESISTORS

All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

· F : nonflammable

COILS

· MMH : mH, UH : աH

Ref.No. Part 1

1-123-1-123-1-123-1-130-

1-130-1-130-1-130-1-130-

1-130-1-123-1-123-1-123-

1-123

1-123 1-130-

1-123

1-123-1-123-

1-161-

1-130-1-102-1-102-

1-102. 1-123. 1-123. 1-123.

1-123 1-123-1-123 1-123-

1-123-1-123-1-123-

1-123 1-123

C 236

C 237 C 238 C 239 C 241

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0255

0256 C260 C261 C511 C514

C518 C521

C522

C525

C543 C544 C 602

C606 C611

C613

C622 C623 C701 C703

C811 C812 C814 C815 C816

C957 C960

C966

C991 C992

C981 <u>休</u>.1-130 C981 <u>休</u>.1-130 C981 <u>休</u>.1-130

CNJ101 1-507 CNJ102 1-507 CNJ103 1-507 CNJ201 1-507

CNJ202 1-507

MECHANISM SECTION

				
No-	Part	No.	Description	
436 437 438 439 440	7-685 7-685 7-688	7-202-21 5-645-11 7-246-21 3-001-11 3-002-12	PTPWH 2X4, TYPE 2, WITH SLIT SCREW +BVTP 3X6 TYPE2 N-S SCREW,TOTSU PTPWH 3X8,TYPE2 W 2, MIDDLE W 2.6, MIDDLE	
441 442 443 444 445	8-825 8-825	9-814-11 5-604-30 5-728-30	DIODE THS102 (TH1001-TH1006) HEAD, ERASE UNIT, RECORD P/B COMBI	
447 448 449 ♦	A-213 A-213 ;X-357	31-003-A 33-084-A 38-004-A 76-801-0 76-802-0	DRUM COMPLETE ASSY, BT FLYWHEEL (T) COMPLETE ASSY HOLDER COMPLETE ASSY, MAGNET LEVER ASSY, PRESS LEVER ASSY, CHANGE	
	X-357 ;X-357 ;X-357	76-803-0 76-804-0 76-805-0 76-806-0 76-807-0	HOLDER (A) ASSY, BEARING HOLDER (B) ASSY, BEARING PLATE (L) ASSY, FULCRUM PLATE (R) ASSY, FULCRUM COVER ASSY, SUB CHASSIS	
456 457 458 459 460	X-357 X-357 X-357	76-812-0 76-813-0 76-815-0 76-816-0 76-817-0	ARM ASSY, TAKE-UP PULLEY ASSY, TAKE-UP PINCH LEVER (T) ASSY PINCH LEVER (S) ASSY TABLE (B) ASSY, REEL	
461 462 463 464 465	X-357 X-357 ;X-357	76-819-0 76-821-0 76-822-0 76-823-0 76-824-0	PULLEY (2) ASSY, MOTOR, REEL ARM (2) ASSY, FR IDLER ASSY, FR ARM (1) ASSY, FR HOLDER ASSY, CASSETTE	
467	X-35; X-35; X-35;	76-825-0 76-826-0 76-827-0 76-828-0 76-830-0	LEVER ASSY (R), SWING ARM ASSY (R), CONNECT LEVER ASSY (L), SWING ARM ASSY (L), CONNECT CHASSIS ASSY, MECHANISM	
472 473 474	X-35 X-35 X-35	76-831-0 76-832-0 76-833-0 76-834-0 76-838-1	GUIDE ASSY, CASSETTE FLYWHEEL (S) ASSY SE ASSY CHASSIS ASSY, HEAD (Canadian, AEP, E)MOTOR BASE	ASSY
477 478 479	;X-35 ;X-35 ;X-35	76-839-1 76-840-1 76-841-1 76-842-1 76-843-1	GB LEVER ASSY MOTOR PULLY ASSY SUPPLY REEL SPINDLE ASSY (Canadian, AEP, E)SUB CHASSIS HP HOLDER ASSY	ASSY

NOTE:
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Due to standardization, parts with part numbers $(\Delta-\Delta\Delta\Delta-\Delta\Delta\Delta-XX)$

may be different from those used in the

MECHANISM SECTION

		MECHAN15	M SECTION				
	No.	Part No.	Description				
	482 4 83 484 8	;X-3576-844-1 ;X-3576-845-1 X-3576-846-1 ;X-3576-847-1 ;X-3576-848-1	RETAINER SPRING ASSY (Canadian,AEP,E)BACK PLATE ASSY (US)MOTOR BASE ASSY (US)SUB CHASSIS ASSY (US)BACK PLATE ASSY				
]						
		4					
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CAPACITORS:

· All capacitors are in uF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF: μ F, PF: μ ν F.

RESISTORS

· All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

· F : nonflammable

COILS

· MMH : mH, UH : μΗ

The components identified by shading and mark Mare critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque Asont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description			200 200 200 200 200 200 200 200 200 200
501 501	A.1-447-002-00	(US,Canadian)TRANSFORMER, POWER (AER)TRANSFORMER, POWER (E)TRANSFORMER, POWER (AEP)BASE POST (14MM) 2P	C013 C101 C105 C106 C108	1-123-380-00 1-107-300-00 1-107-300-00 1-107-300-00 1-123-453-00	MICA MICA	1MF 100PF 100PF 100PF 4.7MF	20% 5% 5% 5% 20%	50V 100V 100V 100V 50V
503 504	\$;1-508-878-00 \$;1-508-879-00 \$;1-508-880-00	BASE POST BASE POST BASE POST	C108 C109 C114 C116	1-123-433-00 1-107-300-00 1-130-627-00 1-130-341-00	MICA FILM	100PF 0.039MF 0.056MF	5% 5% 3%	100V 50V 100V
507	♣ ;1-508-882-00 1-519-223-00 Å .1-526-576-31	BASE POST INDICATOR TUBE, FLUORESCENT (E)SELECTOR, POWER VOLTAGE	C117 C118	1-130-339-00 1-130-340-00	FILM FILM	0.0056MF 0.018MF	3% 3%	100V 100V
509	<u>A</u> ,1-526-609-12	(US,Canadian)CONNECTOR, AC DUTLET (AEP,F)HOLDER, FUSE	C119 C121 C122	1-123-453-00 1-107-300-00 1-123-544-00	MICA .	4.7MF 100PF 2.2MF	20% 5% 20%	50V 100V 50V
	♦ ;1-535-116-00 ♦ ;1-535-135-00 1-553-206-00	TERMINAL (AEP)BASE POST 14MM (10MM PITCH) SWITCH, SLIDE	C123 C127	1-107-298-00 1-123-544-00		82PF 2.2MF	5% 20%	100V 50V
514 514	<u>/</u> 1-555-795-00	(E)	C131 C133 C134 C135 C136	1-130-627-00 1-130-341-00 1-130-339-00 1-130-340-00 1-123-453-00	FILM FILM FILM	0.039MF 0.056MF 0.0056MF 0.018MF 4.7MF	5% 3% 3% 3% 20%	50V 100V 100V 100V 50V
516 517 518 519		, , , ,	C137 C138 C139 C141 C151	1-123-228-00 1-123-453-00 1-123-544-00 1-130-307-00 1-130-302-00	ELECT ELECT FILM	1MF 4.7MF 2.2MF 0.027MF 0.016MF	20% 20% 20% 5% 5%	50V 50V 50V 100V 100V
522 523 524	♦ ;1-604-294-00	(AEP)BASE POST (U-TYPE) SOCKET 49 PC BOARD, SERVO PC BOARD, SYSTEM CONTROL PC BOARD, TIMER SWITCH	C152 C153 C154 C155 C156	1-130-307-00 1-130-305-00 1-130-307-00 1-130-309-00 1-130-307-00	FILM FILM FILM	0.027MF 0.022MF 0.027MF 0.033MF 0.027MF	5% 5% 5% 5% 5%	100V 100V 100V 100V 100V
527 528 529	♦ ;1-604-387-00 ♦ ;1-604-388-00	PC BOARD, CONTROL SW PC BOARD, REC/PB PC BOARD, INPUT PC BOARD, FILTER SW PC BOARD, HEADPHONE	C160 C161 C201 C205 C206	1-123-232-00 1-123-232-00 1-107-300-00 1-107-300-00 1-107-300-00	ELECT MICA MICA	4.7MF 4.7MF 100PF 100PF 100PF	20% 20% 5% 5% 5%	50V 50V 100V 100V 100V
532 533 534	♦ ;1-604-394-00	PC BOARD, EQ PC BOARD, OUTPUT PC BOARD, METER	C208 C209 C214 C216 C217	1-123-453-00 1-107-300-00 1-130-627-00 1-130-341-00 1-130-339-00	MICA FILM FILM	4.7MF 100PF 0.039MF 0.056MF 0.0056MF	20% 5% 5% 3% 3%	50V 100V 50V 100V 100V
536. /		(US,Ganadian,AEP)PC BOARD, LINE FILTER PC BOARD, FUSE (US,Canadian)MOUNTED PCB, RECORD/PLAYBACK	C218 C219 C221 C222	1-130-340-00 1-123-453-00 1-107-300-00 1-123-544-00	FILM ELECT MICA ELECT	0.018MF 4.7MF 100PF 2.2MF	3% 20% 5% 20%	100V 50V 100V 50V
537	₺; A-2010-195 - A	(AEP,E)MOUNTED PCB, RECORD/PLAYBACK	C223	1-107-298-00		82PF	5%	1000
539	₺; A-2020-070-A	MOUNTED PCB, SYSTEM CONTROL MOUNTED PCB, SERVO MOUNTED PCB, METER	C227 C231 C233 C234	1-123-544-00 1-130-627-00 1-130-341-00 1-130-339-00	ELECT FILM FILM FILM	2.2MF 0.039MF 0.056MF 0.0056MF	20% 5% 3% 3%	50V 50V 100V 100V
542	♦; A-2095-363-A	MOUNTED PCB, CAL, REC MOUNTED PCB, EQUALIZER MOUNTED PCB, OUTPUT	C235	1-130-340-00		0.018MF	3%	1000

ELECTRICAL PARTS

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- · Due to standardization, parts with part numbers $(\Delta - \Delta \Delta \Delta - \Delta \Delta \Delta - XX)$ or $\Delta - \Delta \Delta \Delta \Delta - \Delta \Delta \Delta - X$ may be different from those used in the

CAPACITORS:

All capacitors are in µF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:µF, PF:µµF.

RESISTORS

- · All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- · F : nonflammable

COILS

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The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numero spécifié. specifies

NOTE: · Items with cription a

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ELE	CTRICAL PARTS				ELECTRIC	AL PARTS	
ef.No. Part No.	Description		1.	Ref.No.	Part No.	Description	
501 <u>A</u> .1-447-00 501 <u>A</u> .1-447-03	M_00 (Us,Canadian). 2-00 (AEP) 3-00 (E)	TRANSFORMER, POWER TRANSFORMER, POWER TRANSFORMER, POWER BASE POST (14MM) 2F		C013 C101 C105 C106 C108	1-123-380-00 1-107-300-00 1-107-300-00 1-107-300-00 1-123-453-00	ELECT MICA MICA MICA ELECT	1MF 100PF 100PF 100PF 4.7MF
502 4 ;1-508-80 503 4 ;1-508-87 504 4 ;1-508-87 505 4 ;1-508-88	8-00 BASE POST 9-00 BASE POST	•• DASE FUS! (1400) 20	r	C108 C109 C114 C116	1-123-433-00 1-107-300-00 1-130-627-00 1-130-341-00	MICA FILM FILM	100PF 0.039MF 0.056MF
506 4; 1-508-88 507 1-519-22 508 A :1-526-57	3-00 INDICATOR TUBE	, FLUORESCENT LECTOR, POWER VOLTAGE	E 33 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	C117 C118	1-130-339-00	FILM FILM	0.0056MF 0.018MF
509 A.1-526-60 510 A.1-533-13	9-12 (US.Canadian). 1-00 (AEP.E)	CONNECTOR, AC OUTLE	ET	C119 C121 C122	1-123-453-00 1-107-300-00 1-123-544-00	ELECT MICA ELECT	4.7MF 100PF 2.2MF
511 •;1-535-11 512 •;1-535-13 513 1-553-20	5-00 (AEP)BASE	POST 14MM (10MM PITC	сн)	C123 C127	1-107-298-00 1-123-544-00	MICA ELECT	82PF 2.2MF
514 A.1-553-38 514 A.1-553-70 514 A.1-555-79	6-00 (E)	CORD, POWERCORD, POWERCORD, POWER		C131 C133 C134 C135 C136	1-130-339-00	FILM FILM FILM ELECT	0.039MF 0.056MF 0.0056MF 0.018MF 4.7MF
515	2-00 PIN, CONNECTOR 3-00 PIN, CONNECTOR 4-00 PIN, CONNECTOR 0-00 BASE POST, MCD	4P 5P 6P		C137 C138 C139 C141 C151	1-123-228-00 1-123-453-00 1-123-544-00 1-130-307-00 1-130-302-00	ELECT ELECT FILM	1MF 4.7MF 2.2MF 0.027MF 0.016MF
521 4 ;1-560-26 522 1-561-59 523 4 ;1-604-29 524 4 ;1-604-29 525 4 ;1-604-29	8-00 SOCKET 42 3-00 PC BOARD, SERVI 4-00 PC BOARD, SYSTI	EM CONTROL		C152 C153 C154 C155 C156	1-130-309-00	FILM FILM FILM FILM FILM	0.027MF 0.022MF 0.027MF 0.033MF 0.027MF
526 •;1-604-29 527 •;1-604-38 528 •;1-604-38 529 •;1-604-38 530 •;1-604-39	7-00 PC BOARD, REC/ 8-00 PC BOARD, INPU 9-00 PC BOARD, FILT	PB T ER SW		C160 C161 C201 C205 C206	1-123-232-00 1-123-232-00 1-107-300-00 1-107-300-00 1-107-300-00	ELECT ELECT MICA MICA MICA	4.7MF 4.7MF 100PF 100PF 100PF
531 4 ;1-604-39 532 4 ;1-604-39 533 4 ;1-604-39 534 4 ;1-604-39	2-00 PC BOARD, EQ 3-00 PC BOARD, OUTP	UT		C208 C209 C214 C216 C217	1-123-453-00 1-107-300-00 1-130-627-00 1-130-341-00 1-130-339-00	ELECT MICA FILM FILM FILM	4.7MF 100PF 0.039MF 0.056MF 0.0056MF
535 A. 1-604-89 536 A. 1-605-01 537 • ;A-2010-1 537 • ;A-2010-1	0-00 PC BOARD, FUSE 95-A (US,Canadian) MOU	EP) BOARD, LINE FILTER NTED PCB, RECORD/PLAN NTED PCB, RECORD/PLAN	YBACK YBACK	C218 C219 C221 C222 C223	1-130-340-00 1-123-453-00 1-107-300-00 1-123-544-00 1-107-298-00	FILM ELECT MICA ELECT MICA	0.018MF 4.7MF 100PF 2.2MF 82PF
538 4 ;A-2019-1 539 4 ;A-2020-0 540 4 ;A-2029-0	70-A MOUNTED PCB, S 67-A MOUNTED PCB, M	ERVO .		C227 C231 C233 C234	1-123-544-00 1-130-627-00 1-130-341-00 1-130-339-00	ELECT FILM FILM FILM	2.2MF 0.039MF 0.056MF 0.0056MF
E 41 . A ODOE O	CO A MOUNTED DOD C	VI DEC	1	C33E	1 120 240 00	t" T I KK	0 010ME

NOTE:

Items with no part number and no description are not stocked because they are seldom required for routine service.

541 4;A-2095-362-A MOUNTED PCB, CAL, REC

542 •;A-2095-363-A MOUNTED PCB; EQUALIZER 543 •;A-2095-364-A MOUNTED PCB; OUTPUT

- Items marked " " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers $(\Delta-\Delta\Delta\Delta-\Delta\Delta\Delta-XX)$ or $\Delta-\Delta\Delta\Delta\Delta-\Delta\Delta\Delta-XX)$ may be different from those used in the set

CAPACITORS:

All capacitors are in µF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:µF, PF:µµF.

1-130-340-00 FILM

RESISTORS

All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

· F : nonflammable

COILS

: MMH : mH, UH : բH

The components identified by shading and mark Aare critical for safety.
Replace only with part number specified.

0.018MF

Les composants identifiés par une trame et une marque son critiques pour la sécurité Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

	Ref.No.	Part No.	Description				Ref.No. Part No.	Description	
	C236 C237 C238 C239 C241	1-123-453-00 1-123-228-00 1-123-453-00 1-123-544-00 1-130-307-00	ELECT ELECT ELECT	4.7MF 1MF 4.7MF 2.2MF 0.027MF	20% 20% 20% 20% 5%	50V 50V 50V 50V 100V	CNJ203 1-507-726- CNJ501 1-507-649- CNJ601;1-560-061- CNJ602;1-560-066- CNJ701;1-560-061- CNJ702;1-560-066-	00 JACK 00 PIN, CONNECTOR 3P 00 PIN, CONNECTOR 10P 00 PIN, CONNECTOR 3P	
	C251 C252 C253 C254 C255	1-130-302-00 1-130-307-00 1-130-305-00 1-130-307-00 1-130-309-00	FILM FILM FILM FILM FILM	0.016MF 0.027MF 0.022MF 0.027MF 0.033MF	5% 5% 5% 5%	100V 100V 100V 100V 100V	• CNP801;1-560-061- • CNP802;1-560-338- • CNP803;1-560-061- • CNP804;1-560-060- • CNP805;1-560-060-	OO PIN, CONNECTOR 3P OO PIN, CONNECTOR 7P OO PIN, CONNECTOR 3P OO PIN, CONNECTOR 2P	
	C256 C260 C261 C511 C514	1-130-307-00 1-123-232-00 1-123-232-00 1-123-380-00 1-123-380-00	FILM ELECT ELECT ELECT ELECT	0.027MF 4.7MF 4.7MF 1MF 1MF	5% 20% 20% 20% 20%	100V 50V 50V 50V 50V	• CNP806;1-560-060- • CNP807;1-560-064- • CNP808;1-560-062- • CNP809;1-560-062- • CNP810;1-560-065-	OO PIN, CONNECTOR 6P OO PIN, CONNECTOR 4P OO PIN, CONNECTOR 4P	
	C518 C521 C522 C524 C525	1-123-369-00 1-123-369-00 1-123-228-00 1-130-627-00 1-123-381-00	ELECT ELECT ELECT FILM ELECT	4.7MF 4.7MF 1MF 0.039MF 2.2MF	20% 20% 20% 5% 20%	50V 50V 50V 50V 50V	• CNP811;1-560-063- • CNP812;1-560-064- • CNP951;1-560-061- • CNP952;1-560-060- • CNP991;1-560-060-	00 PIN, CONNECTOR 6P 00 PIN, CONNECTOR 3P 00 PIN, CONNECTOR 2P 00 PIN, CONNECTOR 2P	
Principal Company of the company of	C543 C544 C602 C606 C611	1-123-333-00 1-123-333-00 1-161-051-00 1-130-188-00 1-102-905-00	ELECT ELECT CERAMIC FILM CERAMIC	100MF 100MF 0.01MF 0.01MF 130PF	20% 20% 30% 5% 5%	16V 16V 25V 100V 50V	CP951A, 1-231-326- CP951A, 1-231-326- CP951A, 1-231-341-	OO (AEP,E)FILM O. 11 (US)ENCAPSULA	TED COMPONENT
	C613 C622 C623 C701 C703	1-102-905-00 1-123-228-00 1-123-228-00 1-123-231-00 1-123-231-00	CERAMIC ELECT ELECT ELECT ELECT	130PF 1MF 1MF 3.3MF 3.3MF	5% 20% 20% 20% 20%	50V 50V 50V 50V 50V	D001 8-719-815- D002 8-719-815- D004 8-719-910- D102 8-719-910- D103 8-719-920-	55 DIODE 1S1555 29 DIODE HZ12C3L 64 DIODE HZ6B1L	
	C811 C812 C814 C815 C816	1-123-379-00 1-123-379-00 1-123-379-00 1-123-379-00 1-123-380-00	ELECT ELECT ELECT ELECT ELECT	0.47MF 0.47MF 0.47MF 0.47MF 1MF	20% 20% 20% 20% 20%	50V 50V 50V 50V 50V	D104 8-719-815- D105 8-719-815- D202 8-719-910- D203 8-719-920- D204 8-719-815-	55 DIODE 1S1555 64 DIODE HZ6B1L 30 DIODE MV-203V	
		1-123-504-00 1-123-504-00 1-123-479-00 1-130-098-00	ELECT ELECT ELECT (Canadian)			25V 25V 10V 20% 125V	D205 8-719-815- D301 8-719-815- D302 8-719-815- D303 8-719-815- D304 8-719-815-	55 DIODE 1S1555 55 DIODE 1S1555 55 DIODE 1S1555	
	C981 A C981 A C991 C992	.1-130-233-00 .1-130-456-00 1-123-292-00 1-123-292-00	(US) (AEP,E) ELECT ELECT	.FILM 0.03 .FILM 0.02 4700MF 4700MF	33MF 2 22MF 2	25V 25V 25V 25V	D305 8-719-815 D306 8-719-815 D307 8-719-815 D308 8-719-815 D401 8-719-815	55 DIODE 1S1555 55 DIODE 1S1555 55 DIODE 1S1555	
	CNJ102 CNJ103 CNJ201	1-507-726-00 1-507-726-00 1-507-726-00 1-507-726-00 1-507-726-00	JACK, PIN 2P JACK, PIN 2P JACK, PIN 2P JACK, PIN 2P JACK, PIN 2P				D402 8-719-815 D403 8-719-815 D404 8-719-815 D405 8-719-815 D406 8-719-815	55 DIODE 1S1555 55 DIODE 1S1555 55 DIODE 1S1555	

ELECTRICAL PARTS

NOTE

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- Due to standardization, parts with part numbers $(\Delta-\Delta\Delta\Delta-\Delta\Delta\Delta-XX)$ or $\Delta-\Delta\Delta\Delta\Delta-\Delta\Delta\Delta-XX)$ may be different from those used in the set.

CAPACITORS:

· All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS

All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

• F : nonflammable

COILS

· MMH : mH, UH : աH

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

Les composants identifiés par une trame et une marque Asont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

8-719-815-55 DIODE 1S1555 8-719-815-55 DIODE 1S1555

8-719-910-64 DIODE HZ6B1L

8-719-910-64 DIODE HZ6B1L

8-719-815-55 DIODE 1S1555

8-719-815-55 DIODE 1S1555 8-719-815-55 DIODE 1S1555 8-719-910-02 DIODE HZ20-2L

8-719-910-02 DIODE HZ20-2L 8-719-815-55 DIODE 1S1555

8-719-815-55 DIODE 1S1555

8-719-815-55 DIODE 1S1555

8-719-815-55 DIODE 1S1555

8-719-815-55 DIODE 1S1555 8-719-815-55 DIODE 1S1555

8-719-815-55 DIODE 1S1555 8-719-815-55 DIODE 1S1555

8-719-815-55 DIODE 1S1555 8-719-815-55 DIODE 1S1555

8-719-815-55 DIODE 1S1555

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8-719-815-55 DIODE 1S1555

8-719-815-55 DIODE 1S1555

8-719-815-55 DIODE 1S1555 8-719-910-64 DIODE HZ6B1L

8-719-815-55 DIODE 1S1555

8-719-815-55 DIODE 1S1555

8-719-815-55 DIODE 1S1555

8-719-910-02 DIODE HZ20-2L 8-719-910-02 DIODE HZ20-2L 8-719-910-02 DIODE HZ20-2L

8-719-910-02 DIODE HZ20-2L

8-719-815-55 DIODE 1S1555

8-719-815-55 DIODE 1S1555 8-719-815-55 DIODE 1S1555

8-719-815-55 DIODE 1S1555

8-719-815-55 DIODE 1S1555

8-719-815-55 DIODE 1S1555

8-719-815-55 DIODE 1S1555 8-719-815-55 DIODE 1S1555

8-719-910-64 DIODE HZ6B1L 8-719-910-64 DIODE HZ6B1L

8-719-815-55 DIODE 1S1555

8-719-910-25 DIODE HZ12B1L

8-719-815-55 DIODE 1S1555

8-719-910-25 DIODE HZ12B1L

8-719-200-02 DIODE 10E-2

8-719-200-02 DIODE 10E-2

Description

Ref.No. Part No.

D501

D502

nsn40506

0508

0509

D512

D516 D517

D518

0519

D520

D521

D522

D523

D524

D527

D529

0531

0532

D533

D534

0601

D602

D701

D705

0707

n751

0801

0802

D803 D804

D805

ELECTRICAL PARTS

	ELECTRIC	AL PARTS		
Ref.No.	Part No.	Description		
D807 D808 D809 D810 D811	8-719-200-02 8-719-815-55 8-719-815-55 8-719-815-55 8-719-815-55	DIODE 10E-2 DIODE 1S1555 DIODE 1S1555 DIODE 1S1555 DIODE 1S1555		
D812 D813 D814 D815 D816	8-719-910-25 8-719-910-25 8-719-910-25 8-719-910-25 8-719-910-25	DIODE HZ12B1L DIODE HZ15-3L DIODE HZ12B1L DIODE HZ12B1L DIODE HZ12B1L		
D817 D818 D819 D820 D851	8-719-200-02 8-719-815-55 8-719-815-55 8-719-815-55 8-719-955-35	DIODE 10E-2 DIODE 1S1555 DIODE 1S1555 DIODE 1S1555 DIODE PY5525S		
D852 D853 D854 D855 D951	8-719-952-52 8-719-955-35 8-719-952-53 8-719-952-51 8-719-200-02	DIODE PG5525S DIODE PY5525S DIODE BR5525S DIODE AA5525S DIODE 10E-2		
D952 D953 D954 D955 D956	8-719-200-02 8-719-200-02 8-719-200-02 8-719-200-02 8-719-200-02	DIODE 10E-2 DIODE 10E-2 DIODE 10E-2 DIODE 10E-2 DIODE 10E-2		
D957 D958 D959 D960 D961	8-719-200-02 8-719-200-02 8-719-200-02 8-719-910-29 8-719-922-71	DIODE 10E-2 DIODE 10E-2 DIODE 10E-2 DIODE HZ12C3L DIODE HZ27-1L		
D962 D963 D964 D991 D992	8-719-910-03 8-719-920-64 8-719-910-18 8-719-230-02 8-719-230-02	DIODE HZ20-3L DIODE HZ6B1L DIODE HZ11C2L DIODE 3ODF2 DIODE 3ODF2		
D993 D994 D995	8-719-230-02 8-719-230-02 8-719-931-06	DIODE 30DF2 DIODE 30DF2 DIODE EQB01-0	5	
TT. A	.1-532-203-00 .1-532-268-XX .4-532-203-00 .1-532-268-XX	(AEP.E) (US.Canadian) (AEP.E) (US.Canadian)	. TIME-LAG FI . FUSE, GLAS! . TIME-LAG FI . EUSE, GLAS!	S TUBE (2A) JSE (2A)
F4 A	.1-532-203-00 .1-532-268-XX .1-532-203-00 .1-532-268-XX	(US,Canadian) (AEP.E)	TIME-LAG FU FUSE, GLAS TIME-LAG FU FUSE, GLAS	S TUBE (2A) JSE (2A)
F5 ∆	.1-532-295-00	(AEP,E)	.QUICK-ACTING	FUSE (0:5A)

ELECTRICAL PARTS

R	ef.No.	Part No.	Description				Ref.No.	Part No.	Description
		8-759-993-57 8-759-993-58	IC MSL9357RS IC MSL9358RS			1	0SC501	1-464-148-00	UNIT, BIAS OSCILLATOR
	IC003 IC101	8-759-150-47 8-759-101-74 8-759-745-60	IC UPD550C047 IC CX-174 IC NJM4560D			:	PL 501 PL 502	1-518-386-00 1-518-386-00	LAMP, PILOT LAMP, PILOT
	IC104 IC201 IC202	8-759-101-74 8-759-745-60 28-759-101-74 8-759-745-60 8-759-101-74	IC MSL9358RS IC UPD550C047 IC CX-174 IC NJM4560D IC CX-174 IC NJM4560D IC CX-174 IC NJM4560D IC CX-174 IC NJM4560D IC UPC4558C IC UPC4558C IC UPC4558C				Q001 Q002 Q003 Q004 Q005	8-729-101-31 8-729-463-73 8-729-463-73 8-729-464-22 8-729-463-73	TRANSISTOR N13T1 TRANSISTOR 2SD637-Q TRANSISTOR 2SD637-Q TRANSISTOR 2SB642-P TRANSISTOR 2SD637-Q
	IC301 IC401 IC501	8-759-745-60 8-759-145-58 8-759-145-58 8-759-745-60 8-759-145-58	IC NJM4560D IC UPC4558C IC UPC4558C IC NJM4560D IC UPC4558C				Q006 Q007 Q101 Q102 Q103	8-729-464-22 8-729-463-73 8-765-660-10 8-765-450-20 8-765-450-20	TRANSISTOR 2SB642-P TRANSISTOR 2SD637-Q TRANSISTOR 2SK245-1 TRANSISTOR 2SK125-2 TRANSISTOR 2SK125-2
	IC504 IC601 IC602		IC UPC4558C IC UPC4558C IC UPC4558C IC UPC78L05A IC CX-193				Q104 Q105 Q106 Q107 Q108	8-729-366-62 8-729-113-82 8-729-113-82 8-729-167-62 8-729-167-62	TRANSISTOR 2SD666-C TRANSISTOR 2SA1138-F TRANSISTOR 2SA1138-F TRANSISTOR 2SC2676-F TRANSISTOR 2SC2676-F
	IC604 IC605 IC701 IC702	8-759-145-58 8-759-145-58 8-759-145-58 8-759-145-58	IC UPC4558C IC UPC4558C IC UPC4558C IC UPC4558C		ď		0109 0110 0201 0202 0203	8-729-366-62 8-729-364-62 8-765-660-10 8-765-450-20 8-765-450-20	TRANSISTOR 2SD666-C TRANSISTOR 2SB646-C TRANSISTOR 2SK245-1 TRANSISTOR 2SK125-2 TRANSISTOR 2SK125-2
	IC802 IC803 IC804	8-759-170-93 8-759-145-58 8-759-145-58 8-759-984-69 8-759-133-90	IC UPD547C093 IC UPC4558C IC UPC4558C IC MB84069B IC UPC339C				Q204 Q205 Q206 Q207 Q208	8-729-366-62 8-729-113-82 8-729-113-82 8-729-167-62 8-729-167-62	TRANSISTOR 2SD666-C TRANSISTOR 2SA1138-F TRANSISTOR 2SA1138-F TRANSISTOR 2SC2676-F TRANSISTOR 2SC2676-F
	L001 L101 L102 L103	8-759-145-58 1-408-096-00 1-407-240-00 1-408-262-00 1-407-240-00	IC UPC4558C IC UPD547C093 IC UPC4558C IC UPC4558C IC MB84069B IC UPC339C IC UPC4558C MICRO INDUCTOR	470UH 22MMH 27MMH 22MMH			0210 0301 0302 0401	8-729-366-62 8-729-364-62 8-729-663-47 8-729-663-47	TRANSISTOR 2SD666-C TRANSISTOR 2SB646-C TRANSISTOR 2SC1363-7 TRANSISTOR 2SC1363-7 TRANSISTOR 2SC1363-7
	L107 L108	1-408-253-00 1-408-253-00 1-408-250-00 1-408-249-00 1-408-249-00	MICRO INDUCTOR MICRO INDUCTOR MICRO INDUCTOR MICRO INDUCTOR MICRO INDUCTOR	4.7MMH 2.7MMH 2.2MMH 2.2MMH			Q402 Q501 Q502 Q503 Q504	8-729-663-47 8-727-312-00 8-729-167-62 8-729-180-93 8-729-113-82	TRANSISTOR 2SC1363-7 TRANSISTOR 2SK42-2 TRANSISTOR 2SC2676-F TRANSISTOR 2SD809-F TRANSISTOR 2SA1138-F
	L205	1-407-240-00 1-408-259-00 1-408-253-00	MICRO INDUCTOR MICRO INDUCTOR MICRO INDUCTOR	22MMH 15MMH 4.7MMH			Q505 Q506 Q507 Q508 Q509	8-729-167-62 8-727-312-00 8-729-113-82 8-729-173-13 8-729-167-62	TRANSISTOR 2SC2676-F TRANSISTOR 2SK42-2 TRANSISTOR 2SA1138-F TRANSISTOR 2SB731-F TRANSISTOR 2SC2676-F
	L206 L207 L208 L801 L951	1-408-249-00 1-408-249-00 1-408-096-00 1-421-302-XX	MICRO INDUCTOR MICRO INDUCTOR MICRO INDUCTOR MICRO INDUCTOR COIL(LINE FILT	2.2MMH 2.2MMH 470UH			Q510 Q511 Q512 Q513 Q514	8-729-113-82 8-729-663-47 8-729-602-67 8-729-281-53 8-729-281-53	TRANSISTOR 2SA1138-F TRANSISTOR 2SC1363-7 TRANSISTOR 2SA1026-7 TRANSISTOR 2SC1815-GR TRANSISTOR 2SC1815-GR
			-	•					

ELECTRICAL PARTS

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· CAPACITORS:

All capacitors are in µF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS

· All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

· F : nonflammable

COILS

MMH : mH, UH : µH

The components identified by shading and mark Aare critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers $(\Delta - \Delta\Delta\Delta - \Delta\Delta\Delta - XX \text{ or } \Delta - \Delta\Delta\Delta\Delta - \Delta\Delta\Delta - X)$ may be different from those used in the

CAPACITORS:

 \cdot All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- · F : nonflammable

COILS

· MMH : mH, UH : ևH

ELECTRICAL PARTS

•			
Ref.No.	Part No.	Description	<u>1</u>
Q515	8-729-663-47	TRANSISTOR	2SC1363-7
Q516	8-729-663-47	TRANSISTOR	2SC1363-7
Q517	8-729-663-47	TRANSISTOR	2SC1363-7
Q518	8-729-663-47	TRANSISTOR	2SC1363-7
Q519	8-729-663-47	TRANSISTOR	2SC1363-7
Q520	8-729-663-47	TRANSISTOR	2SC1363-7
Q521	8-729-663-47	TRANSISTOR	2SC1363-7
Q522	8-729-602-67	TRANSISTOR	2SA1026-7
Q523	8-729-663-47	TRANSISTOR	2SC1363-7
Q524	8-729-602-67	TRANSISTOR	2SA1026-7
Q525	8-729-663-47	TRANSISTOR	2SC1363-7
Q526	8-729-602-67	TRANSISTOR	2SA1026-7
Q527	8-729-663-47	TRANSISTOR	2SC1363-7
Q528	8-729-663-47	TRANSISTOR	2SC1363-7
Q601	8-729-663-47	TRANSISTOR	2SC1364-8
Q602	8-729-663-47	TRANSISTOR	2SC1364-8
Q603	8-729-180-93	TRANSISTOR	2SD809-K
Q604	8-729-173-13	TRANSISTOR	2SB731-K
Q605	8-729-180-93	TRANSISTOR	2SD809-K
Q606	8-729-173-13	TRANSISTOR	2SB731-K
Q701	8-729-663-47	TRANSISTOR	2SC1364-8
Q702	8-729-602-68	TRANSISTOR	2SA1026-8
Q703	8-729-663-47	TRANSISTOR	2SC1364-8
Q704	8-729-663-47	TRANSISTOR	2SC1364-8
Q705	8-729-663-47	TRANSISTOR	2SC1364-8
Q706	8-729-663-47	TRANSISTOR	2SC1364-8
Q707	8-729-180-93	TRANSISTOR	2SD809-K
Q708	8-729-173-13	TRANSISTOR	2SB731-K
Q709	8-729-180-93	TRANSISTOR	2SD809-K
Q710	8-729-173-13	TRANSISTOR	2SB731-K
Q751	8-729-180-93	TRANSISTOR	2SD809-K
Q752	8-729-663-47	TRANSISTOR	2SC1364-8
Q753	8-729-173-13	TRANSISTOR	2SB731-K
Q754	8-729-602-68	TRANSISTOR	2SA1026-8
Q801	8-729-663-47	TRANSISTOR	2SC1364-7
Q802	8-729-663-47	TRANSISTOR	2SC1364-7
Q803	8-729-663-47	TRANSISTOR	2SC1364-7
Q804	8-729-663-47	TRANSISTOR	2SC1364-7
Q805	8-729-663-47	TRANSISTOR	2SC1364-7
Q806	8-729-663-47	TRANSISTOR	2SC1364-7
Q807	8-729-663-47	TRANSISTOR	2SC1364-7
Q808	8-729-378-93	TRANSISTOR	2SD789-E
Q809	8-729-378-93	TRANSISTOR	2SD789-E
Q810	8-729-378-93	TRANSISTOR	2SD789-E
Q811	8-729-283-42	TRANSISTOR	2SB834-Y
Q812	8-729-663-47	TRANSISTOR	2SC1364-7
Q813	8-729-663-47	TRANSISTOR	2SC1364-7
Q814	8-729-663-47	TRANSISTOR	2SC1364-7
Q815	8-729-663-47	TRANSISTOR	2SC1364-7

ELECTRICAL PARTS

	ELECIKIC	AL PARIS
Ref.No.	Part No.	Description
Q817 Q951 Q952 Q953 Q954	8-729-288-02 8-729-663-47	TRANSISTOR 2SC1364-7 TRANSISTOR 2SD880-Y TRANSISTOR 2SC1364-7 TRANSISTOR 2SC1364-7 TRANSISTOR 2SD880-Y
Q955 Q956 Q957 Q958 Q959	8-729-663-47 8-729-378-93 8-729-288-02 8-729-663-47 8-729-663-47	TRANSISTOR 2SC1364-7 TRANSISTOR 2SD789-E TRANSISTOR 2SD880-Y TRANSISTOR 2SC1364-7 TRANSISTOR 2SC1364-7
Q960 Q961	8-729-288-02 8-729-663-47	TRANSISTOR 2SD880-Y TRANSISTOR 2SC1364-7
R026 R106 R107 R108 R109	1-244-853-00 1-214-842-00 1-214-879-00 1-214-884-00 1-214-913-00	CARBON 150 5% 1/2W METAL 120 1% 1/2W METAL 4.3K 1% 1/2W METAL 6.8K 1% 1/2W METAL 100K 1% 1/2W
R129 R133 R134 R141 R151	1-214-932-00 1-214-901-00 1-214-894-00 1-214-884-00 1-214-932-00	METAL 620K 1% 1/2W METAL 33K 1% 1/2W METAL 18K 1% 1/2W METAL 6.8K 1% 1/2W METAL 620K 1% 1/2W
R167 R185 R186 R206 R207	1-214-872-00 1-214-872-00 1-214-872-00 1-214-842-00 1-214-879-00	METAL 2.2K 1% 1/2W METAL 2.2K 1% 1/2W METAL 2.2K 1% 1/2W METAL 2.2K 1% 1/2W METAL 120 1% 1/2W METAL 4.3K 1% 1/2W
R208 R209 R229 R233 R234	1-214-884-00 1-214-913-00 1-214-932-00 1-214-901-00 1-214-894-00	METAL 6.8K 1% 1/2W METAL 100K 1% 1/2W METAL 620K 1% 1/2W METAL 33K 1% 1/2W METAL 18K 1% 1/2W
R241 R251 R267 R285 R286	1-214-884-00 1-214-932-00 1-214-872-00 1-214-872-00 1-214-872-00	METAL 6.8K 1% 1/2W METAL 620K 1% 1/2W METAL 2.2K 1% 1/2W METAL 2.2K 1% 1/2W METAL 2.2K 1% 1/2W METAL 2.2K 1% 1/2W
R504 R505 R509 R510	1-214-856-00 1-214-862-00 1-214-856-00 1-214-862-00 1-213-076-00	METAL 470 1% 1/2W METAL 820 1% 1/2W METAL 470 1% 1/2W METAL 820 1% 1/2W FUSIBLE 47 5% 1W F
R966. <u>/</u> R967. /	N 1-206-467-00 N 1-217-395-00	METAL 15 5% 2W F FUSIBLE 47 5% 1/4W F
RV101 RV102 RV103 RV104 RV105		RES, ADJ, METAL GLAZE 100 RES, ADJ, METAL GLAZE 10K RES, VAR, CARBON 20K RES, ADJ, METAL GLAZE 4.7K RES, VAR, CARBON 5K

Items with no part number and no des-cription are not stocked because they are seldom required for routine service.

8-729-663-47 TRANSISTOR 2SC1364-7

- · Items marked " " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers ($\Delta-\Delta\Delta\Delta-\Delta\Delta\Delta-XX$) or $\Delta-\Delta\Delta\Delta\Delta-\Delta\Delta\Delta-XX$) may be different from those used in the set.

- CAPACITORS: All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers. MF: μF , PF: $\mu \mu F$.
- RESISTORS
 All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- · F : nonflammable

COILS

· MMH : mH, UH : µH

The components identified by shading and mark Aare critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque Asont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
RV107 RV108	1-224-251-XX 1-224-251-XX 1-224-251-XX 1-224-247-XX 1-224-252-XX	RES, ADJ, SOLID 4.7K RES, ADJ, SOLID 4.7K RES, ADJ, SOLID 4.7K RES, ADJ, METAL GLAZE 100 RES, ADJ, METAL GLAZE 10K
RV204 RV205 RV206	1-228-127-00 1-224-251-XX 1-228-128-00 1-224-251-XX 1-224-251-XX	RES, VAR, CARBON 20K RES, ADJ, METAL GLAZE 4.7K RES, VAR, CARBON 5K RES, ADJ, SOLID 4.7K RES, ADJ, SOLID 4.7K
RV503	1-224-251-XX 1-224-248-XX 1-224-248-XX 1-228-128-00 1-224-250-XX	RES, ADJ, SOLID 4.7K RES, ADJ, SOLID 470 RES, ADJ, SOLID 470 RES, VAR, CARBON 5K RES, ADJ, SOLID 2.2K
	1-224-250-XX 1-224-254-XX 1-226-234-00 1-226-239-00 1-226-234-00	RES, ADJ, SOLID 2.2K RES, ADJ, METAL GLAZE 47K RES, ADJ, CARBON 2K RES, ADJ, CARBON 100K RES, ADJ, CARBON 2K
RV702 RV703	1-226-239-00 1-226-236-00 1-224-252-XX 1-226-236-00 1-226-241-00 1-226-241-00	RES, ADJ, CARBON 100K RES, ADJ, CARBON 10K RES, ADJ, SOLID 10K RES, ADJ, CARBON 10K RES, ADJ, CARBON 500K RES, ADJ, CARBON 500K
RY501 RY502 RY503	1-515-323-21 1-515-323-21 1-515-323-21	RELAY RELAY RELAY
\$001 \$002 \$003 \$004 \$501	1-552-539-00 1-552-539-00 1-552-539-00 1-552-539-00 1-553-638-00	SWITCH, KEY BOARD SWITCH, KEY BOARD SWITCH, KEY BOARD SWITCH, KEY BOARD SWITCH, SLIDE
\$502 \$503 \$504 \$505 \$601	1-553-648-00 1-553-647-00 1-553-254-00 1-552-964-00 1-553-325-00	SWITCH, PUSH SWITCH, LEVER SLIDE SWITCH, ROTARY SWITCH, ROTARY SWITCH
\$851 \$852 \$853 \$854 \$855	1-552-539-00 1-552-539-00 1-552-539-00 1-552-539-00 1-552-539-00	SWITCH, KEY BOARD SWITCH, KEY BOARD SWITCH, KEY BOARD SWITCH, KEY BOARD SWITCH, KEY BOARD
\$856 \$857	1-552-539-00 1-552-539-00	SWITCH, KEY BOARD SWITCH, KEY BOARD
S951 <u>∧</u> S951 <u>∧</u>	.1-553-318-00 .1-553-319-00 .1-553-746-00 .1-553-747-00	(ALP,E)SWITCH, PUSH (AC POWER) (US,Canadian)SWITCH, PUSH (AC POWER) (US,Canadian)SWITCH, SEESAW (AC POWER) (AEP,E)SWITCH, SEESAW (AC POWER)

ELECTRICAL PARTS

	LLLOTRIC	77L 171(15	
Ref.No.	Part No.	Description	
TH101 TH201	1-800-200-00 1-800-200-00	THERMISTOR S-3K THERMISTOR S-3K	
TP2 TP3 ♣ TP601 ♣ TP602 ♣	;1-560-060-00 ;1-560-060-00 ;1-560-060-00 ;1-560-060-00 ;1-560-060-00 ;1-560-060-00	PIN, CONNECTOR 2P PIN, CONNECTOR 2P PIN, CONNECTOR 2P PIN, CONNECTOR 2P PIN, CONNECTOR 2P PIN, CONNECTOR 2P	
X601	1-527-815-00	OSCILLATOR, CRYSTAL	

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CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.
- RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
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COILS

· MMH : mH, UH : μΗ

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ELECTROLYTIC CAPACITORS

			RATING		→ : Use the high vol	tage rated one.
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.
CAP. (µF)	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47						1-121-726-00
1.0					→ .	1-121-391-00
2.2					→	1-121-450-00
3.3	-	→	→	1-121-392-00	→	1-121-393-00
4.7		→	→	1-121-395-00	-→	1-121-396-00
10	→	- - - - -	1-121-651-00	1-121-398-00	→	1-121-738-00
22			1-121-479-00	1-121-480-00	1-121-662-00	1-121-152-00
33		_ →	1-121-403-00	1-121-404-00	1-121-652-00	1-121-405-00
47	→	1-121-352-00	1-121-409-00	1-121-410-00	1-121-653-00	1-121-411-00
100	→	1-121-414-00	1-121-415-00	1-121-416-00	1-121-357-00	1-121-417-00
220	1-121-419-00	1-121-420-00	1-121-421-00	1-121-422-00	1-121-261-00	1-121-423-00
330	1-121-751-00	1-121-805-00	1-121-521-00	1-121-654-00	1-121-655-00	1-121-656-00
470	1-121-424-00	1-121-425-00	1-121-426-00	1-121-733-00	1-121-361-00	1-121-810-00
1000		1-121-736-00	1-121-245-00	1-121-657-00	1-121-388-00	1-123-061-00
2200	1-121-658-00	1-121-659-00	1-121-660-00	1-123-067-00	1-121-984-00	
3300	1-121-661-00	1-123-075-00	1-123-071-00	-	_	_

(=)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.	
CAP. (µF)	PART No.	PART No.	PART No.	PART No.	
0.47	_	_	_	-	
1.0	1-123-249-00	1-123-252-00	1-123-003-00	1-121-168-00	
2.2	1-123-250-00	1-123-026-00	-	1-123-028-00	
3.3	1-121-995-00	_	1-123-004-00	1-123-006-00	
4.7	1-123-255-00	1-121-246-00	1-121-759-00	1-123-007-00	
10	1-121-126-00	1-121-999-00	1-123-254-00	1-123-008-00	
22	1-121-996-00	1-123-253-00	1-123-005-00	1-123-022-00	
33	1-121-997-00	1-121-757-00			
47	1-123-251-00	1-121-919-00		_	
100	1-123-084-00	_	_	_	

CERAMIC CAPACITORS

			RAT	ING			
1	50 VOLT.		50 VOLT.	.010 (-5)	50 VOLT.	CAP. (µF)	50 VOLT.
CAP. (pF)	PART No.	CAP. (pF)	PART No.	CAP. (pF)	PART No.	CAL. (µ1)	PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-0
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-0
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-0
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-0
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-0
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-0
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-0
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-0
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-0
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-0
8 ,	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-0
. 9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-0
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-0
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-0
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-0
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00	,	
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00	1			

CERAMIC (SEMICONDUCTOR) CAPACITORS

		. RA	TING -	: Use the high vol	tage rated one.	
	25 VOLT.	50 VOLT.		25 VOLT.	50 VOLT.	
CAP. (µF)	PART No.	PART No.	CAP. (µF)	PART No.	PART No.	
0.001	→	1-161-039-00	0.018	1-161-016-00	1-161-054-00	
0.0012	→	1-161-040-00	0.022	1-161-017-00	1-161-055-00	
0.0015		1-161-041-00	0.027	1-161-018-00	1-161-056-00	
0.0018		1-161-042-00	0.033	1-161-019-00	1-161-057-00	
0.0022	ļ	1-161-043-00	0.039	1-161-010-00	1-161-058-00	
0.0027		1-161-044-00	0.047	1-161-021-00	1-161-059-00	
0.0033	→	1-161-045-00	0.056		1-161-060-00	
0.0039	_ →	1-161-046-00	0.068	→	1-161-061-00	
0.0047		1-161-047-00	0.082	1-161-024-00	1-161-062-00	
0.0056	-	1-161-048-00	0.1	1-161-025-00	1-161-063-00	
0.0068		1-161-049-00				
0.0082	1-161-012-00	1-161-050-00	Į		:	
0.01	1-161-013-00	1-161-051-00				
0.012	 →	1-161-052-00				
0:015	1-161-015-00	1-161-053-00	1	, '		

MYLAR CAPACITORS

						RATING					
	50 VÓLŤ.	100 VOLT.	200 VOLT.		50 VOLT.	100 VOLT.	200 VOLT.	OAD (UE)	50 VOLT.	100 VOLT.	200 VOLT.
CAP. (µF)	PART No.	PART No.	PART No.	CAP. (µF)	PART No.	PART No.	PART No.	CAP. (μF)	PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012			1-108-410-00		1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015			1-108-411-00	•	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018			1-108-412-00		1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00	-	
0.0033			1-108-415-00		1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00		-
0.0039			1-108-416-00		1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00	-	_
0.0047			1-108-417-00		1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00	_	-
0.0056			1-108-418-00		1-108-361-00	1-108-386-00	1-108-430-00				
0.0068			1-108-419-00		1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00	· ·			



TANTALUM CAPACITORS

			RATING	÷: l	Jse the high voltage	rated one.	
	3.15 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	25 VOLT.	35 VOLT.
CAP. (µF)	PART No.	PART No.	PART No.				
0.01					→	→	1-131-396-00
0.015						→	1-131-397-00
0.022						>	1-131-398-00
0.033						→	1-131-399-00
0.047						→	1-131-400-00
0.068					→	→	1-131-401-00
0.1					→		1-131-402-00
0.15					→	→	1-131-403-00
0.22		1				→	1-131-404-00
0.33					→ .	1-131-409-00	1-131-405-00
0,47		T	-	-	1-131-412-00	→	1-131-406-00
0.68		– .	_	1-131-415-00	→	1-131-410-00	1-131-407-00
1.0	_	-	1-131-418-00	_	1-131-413-00	→	1-131-408-00
1.5		1-131-421-00	_	1-131-416-00	→	1-131-411-00	1-131-348-00
2.2	1-131-424-00	_	1-131-419-00	_	1-131-414-00	1-131-355-00	1-131-349-00
3.3	_	1-131-422-00	_	1-131-417-00	1-131-362-00	1-131-356-00	1-131-350-00
4.7	1-131-425-00	-	1-131-420-00	1-131-369-00	1-131-363-00	1-131-357-00	1-131-351-00
6.8	_	1-131-423-00	1-131-376-00	1-131-370-00	1-131-364-00	1-131-358-00	1-131-352-00
10	1-131-426-00	1-131-383-00	1-131-377-00	1-131-371-00	1-131-365-00	1-131-359-00	1-131-353-00
15	1-131-390-00	1-131-384-00	1-131-378-00	1-131-372-00	1-131-366-00	1-131-360-00	retr
22	1-131-391-00	1-131-385-00	1-131-379-00	1-131-373-00	1-131-367-00		
33	1-131-392-00	1-131-386-00	1-131-380-00	1-131-374-00			
47	1-131-393-00	1-131-387-00	1-131-381-00	-			
68	1-131-394-00	1-131-388-00	_	. –			
100	1-131-395-00	_	-	-			

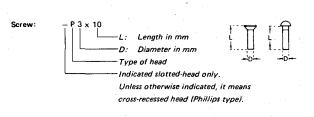


			RATING			
CAP. (μF)	3 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	35 VOLT.
	PART No.					
0.033						1-131-273-00
0.047						1-131-274-00
0.068						1-131-275-00
0.1						1-131-276-00
0.15				* *		1-131-277-00
0.22		+		. –	1-131-262-00	1-131-278-00
0.33			_	_	1-131-263-00	1-131-279-00
0.47	Í		1-131-169-00		1-131-264-00	1-131-280-00
0.68				1-131-258-00	1-131-265-00	1-131-281-00
1.0			1-131-254-00		1-131-266-00	1-131-282-00
1.5		1-131-250-00		_	1-131-267-00	1-131-283-00
2.2		_	_	1-131-259-00	1-131-268-00	1-131-284-00
3.3		_	1-131-255-00		1-131-269-00	
4.7		1-131-251-00	1-131-171-00	_	1-131-270-00	_
6.8		_	-	1-131-260-00	1-131-271-00	_
10	-	_	1-131-256-00		1-131-272-00	-
15	_	1-131-252-00	_	1-131-261-00		
22		_	1-131-257-00			
33	1-131-176-00	1-131-253-00	1-131-173-00	_		
47	1-131-288-00	1-131-174-00	-			
100	1-131-177-00					

1/4 WATT CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11.	1-246-426-00	110	1-246-450-00	1.1k		11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1 .	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	i		18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	ì	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k		22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
													1 044 777 00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00		} . !	27k	1-246-507-00	270k	1-246-531-00		1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k		30k	1-246-508-00	300k	1-246-532-00		1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00	8	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k		68k	1-246-517-00	1	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	ł I	75k	1-246-518-00	750k	1-246-542-00		1.5
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		
	. '	l l	1		1	l		1		li .		H	

HARDWARE NOMENCLATURE



Reference Designation	Shape	Description	Remarks			
		SCREWS	<u></u>			
Р	₽	pan-head screw	binding-head (B) screw for replacement			
PWH	₽	pan-head screw with washer face	binding-head (B) screw and flat washer for replacement			
PS PSP	85-	pan-head screw with spring washer	binding-head (B) screw and spring washer for replace- ment			
PSW PSPW	(#)	pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement			
R	€3	round-head screw	binding-head (B) screw for replacement			
K	Ð	flat-countersunk-head screw				
RK	₽	oval-countersunk-head screw				
В	€∋	binding-head screw				
т (truss-head screw	binding-head (B) screw for replacement			
F .	[] 3	flat-fillister-head screw				
RF	€⊒•	fillister-head screw				
BV	(D+	braizer-head screw	1			

Nut, Washer,	Retaining ring:
	N 3 — Diameter of usable screw or shaft — Reference designation

Reference Designation	Shape	Description	Remarks				
		SELF-TAPPING SCRE	ws				
TA	(H)	self-tapping screw	ex: TA, P 3 x 10				
PTP		pan-head self-tapping screw	binding-head self- tapping (TA, B) screw for replacement				
PTPWH	#	pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement				
PTTWH	€	pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement				
	·	SET SCREWS					
sc	-€Э	set screw					
sc e==		hexagon-socket set screw	ex: SC 2:6 x 4, hexagon socket				
		NUT					
N	-[]-(-)-	nut					
		WASHERS					
W .	0	flat washer					
SW	-⊚-	spring washer					
LW	LW internal-tooth lock ex: LW3, inte washer		ex: LW3, internal				
LW 🔘		external-tooth lock washer	ex: LW3, external				
		RETAINING RINGS					
E	0	retaining ring					
G	୍ଷ	grip-type retaining ring					